

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JANUARY 15, 1950

LIBRARY
A. & M. COLLEGE OF TEXAS



Picea Glauca Conica

SEEDS

TREE—SHRUB—PERENNIAL

FLOWER—VEGETABLE—GRASS

HERBST BROTHERS

92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

ORNAMENTAL SHRUBS

Our shrubs are well grown, bushy stock, with plenty of canes and grown in wide rows to insure specimen plants suitable for your critical retail and landscape trade. Consult our Fall Wholesale Trade List in which we offer a large assortment. Our Spring Wholesale Bulletin will be in the mail about February 1.

Acanthopanax Sieboldianus Per 100	
12 to 18 ins.	\$18.00
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Almond, Pink-flowering	
2 to 3 ft.	45.00
3 to 4 ft.	50.00
Althaea Anemoneaeflorus, Ardens,	
Boule de Feu, Double	
Purple, Jeanne d'Arc, Lucy,	
Rubis	
12 to 18 ins.	10.00
18 to 24 ins.	15.00
2 to 3 ft.	20.00
3 to 4 ft.	25.00
Barberry, Thunbergi	
9 to 12 ins.	9.00
12 to 15 ins.	12.00
15 to 18 ins.	14.00
18 to 24 ins.	20.00
2 to 2 1/2 ft.	27.00
2 1/2 to 3 ft.	35.00
Barberry, Box	
9 to 12 ins.	18.00
12 to 15 ins.	25.00
15 to 18 ins.	30.00
Barberry, Red-leaved	
15 to 18 ins.	25.00
18 to 24 ins.	32.00
2 to 2 1/2 ft.	45.00
Barberry, Truehedge	
15 to 18 ins.	30.00
18 to 24 ins.	37.00
2 to 2 1/2 ft.	45.00
Buckthorn, Cathartica	
12 to 18 ins.	9.00
18 to 24 ins.	12.00
2 to 3 ft.	18.00
3 to 4 ft.	30.00
Buckthorn, Frangula	
2 to 3 ft.	28.00
Buckthorn, Korean	
18 to 24 ins.	15.00
2 to 3 ft.	20.00
3 to 4 ft.	30.00
Buddleia Charming	
Medium	20.00
No. 1	25.00
Buddleia Dubonnet	
Medium	18.00
No. 1	22.00
Buddleia Fortune	
(Pat. No. 208)	
No. 1	30.00
Buddleia Ile de France	
Medium	18.00
No. 1	22.00
Buddleia Orchid Beauty	
Medium	22.00
No. 1	28.00
Buddleia Burgundy Per 100	
No. 1	\$35.00
Buddleia Empire Blue	
No. 1	35.00
Buddleia Pink Dawn	
No. 1	35.00
Buddleia Royal Red	
(Pat. No. 556)	
No. 1	35.00
Buddleia Snowbank	
No. 1	35.00
Buddleia White Bouquet	
(Pat. No. 536)	
No. 1	40.00
Cornus Alba Sibirica Per 100	
2 to 3 ft.	\$30.00
3 to 4 ft.	40.00
4 to 5 ft.	55.00
Cornus Goldenwing	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00

Cornus Racemosa Per 100	
2 to 3 ft.	\$40.00
3 to 4 ft.	50.00
Deutzia Pride of Rochester	
18 to 24 ins.	18.00
2 to 3 ft.	25.00
3 to 4 ft.	35.00
Elaeagnus Angustifolia	
3 to 4 ft.	45.00
4 to 5 ft.	55.00
5 to 6 ft.	65.00
Euonymus Yedoensis	
12 to 18 ins.	20.00
18 to 24 ins.	30.00
2 to 3 ft.	40.00
Forsythia Fortunei	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Forsythia Intermedia	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Forsythia Intermedia Spectabilis	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Forsythia Spring Glory	
18 to 24 ins.	30.00
2 to 3 ft.	40.00
Honeysuckle, Bella Albida	
2 to 3 ft.	30.00
3 to 4 ft.	40.00
4 to 5 ft.	50.00
Honeysuckle, Grandiflora Rosea	
2 to 3 ft.	30.00
3 to 4 ft.	40.00
4 to 5 ft.	50.00
Honeysuckle, Pink Tatarian	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Honeysuckle, Red Tatarian	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Honeysuckle, Virginialis Alba	
2 to 3 ft.	35.00
3 to 4 ft.	45.00
Honeysuckle, Zabeli	
18 to 24 ins.	28.00
2 to 3 ft.	40.00
3 to 4 ft.	50.00
Hydrangea Arborescens	
Grandiflora	
12 to 18 ins.	22.00
18 to 24 ins.	32.00
2 to 3 ft.	50.00
Hydrangea Paniculata	
Grandiflora	
12 to 18 ins.	22.00
18 to 24 ins.	32.00
2 to 3 ft.	45.00
3 to 4 ft.	55.00
Ilex Verticillata	
12 to 18 ins.	25.00
18 to 24 ins.	35.00
Kerria Japonica, Single	
18 to 24 ins.	45.00
2 to 3 ft.	55.00
Kolkwitzia Amabilis	
12 to 18 ins.	30.00
18 to 24 ins.	45.00
2 to 3 ft.	60.00
3 to 4 ft.	70.00
Lilac, French, Chas. X,	
President Grey	
18 to 24 ins.	50.00
2 to 3 ft.	65.00
Lilac, Common Purple	
12 to 18 ins.	18.00
18 to 24 ins.	25.00
2 to 3 ft.	30.00
Lilac, Common White	
18 to 24 ins.	40.00
2 to 3 ft.	50.00
3 to 4 ft.	60.00
Lilac (Chinese), Rothomagensis	
18 to 24 ins.	30.00
2 to 3 ft.	35.00
3 to 4 ft.	45.00
4 to 5 ft.	60.00

Lilac, Josikaea Per 100	
18 to 24 ins.	\$35.00
2 to 3 ft.	45.00
Lilac, Peking	
2 to 3 ft.	45.00
3 to 4 ft.	60.00
Lilac, Rubra de Marley	
12 to 18 ins.	22.00
18 to 24 ins.	30.00
2 to 3 ft.	40.00
3 to 4 ft.	50.00
Lilac, Villosa,	
Dr. Breitschneider	
18 to 24 ins.	35.00
2 to 3 ft.	45.00
3 to 4 ft.	60.00
Philadelphus Coronarius	
18 to 24 ins.	20.00
2 to 3 ft.	25.00
3 to 4 ft.	32.00
4 to 5 ft.	50.00
Philadelphus Lemoinei	
12 to 18 ins.	27.00
2 to 3 ft.	37.00
3 to 4 ft.	45.00
Philadelphus Virginialis	
12 to 18 ins.	30.00
18 to 24 ins.	40.00
2 to 3 ft.	50.00
3 to 4 ft.	60.00
Physocarpus Opulifolius	
2 to 3 ft.	35.00
3 to 4 ft.	45.00
4 to 5 ft.	50.00
Physocarpus Opulifolius Nana	
2 to 3 ft.	30.00
3 to 4 ft.	45.00
Potentilla Fruticosa	
12 to 18 ins.	25.00
18 to 24 ins.	35.00
Ribes Odoratum	
18 to 24 ins.	25.00
2 to 3 ft.	35.00
3 to 4 ft.	45.00
Salix (Pussy Willow)	
2 to 3 ft.	30.00
3 to 4 ft.	40.00
4 to 5 ft.	60.00
5 to 6 ft.	70.00
Shepherdia Argentea	
18 to 24 ins.	30.00
2 to 3 ft.	40.00
Sorbaria (Ural False Spiraea)	
12 to 18 ins.	25.00
2 to 3 ft.	35.00
3 to 4 ft.	45.00
Spiraea Anthony Waterer	
12 to 15 ins.	25.00
15 to 18 ins.	30.00
18 to 24 ins.	35.00
2 to 2 1/2 ft.	40.00
Spiraea Billiardi	
12 to 18 ins.	18.00
2 to 3 ft.	25.00
3 to 4 ft.	35.00
Spiraea Bumalda Superba	
12 to 18 ins.	18.00
18 to 24 ins.	25.00
2 to 3 ft.	35.00
Spiraea Japonica Ovalifolia	
12 to 15 ins.	35.00
15 to 18 ins.	40.00
18 to 24 ins.	50.00
Spiraea Froebeli	
12 to 18 ins.	16.00
18 to 24 ins.	22.00
2 to 2 1/2 ft.	27.00
Spiraea Richmensis	
12 to 18 ins.	25.00
18 to 24 ins.	35.00
2 to 3 ft.	45.00
Spiraea Thunbergi	
18 to 24 ins.	22.00
2 to 2 1/2 ft.	27.00
2 1/2 to 3 ft.	35.00
Spiraea Vanhouttei	
18 to 24 ins.	14.00
2 to 3 ft.	20.00
3 to 4 ft.	25.00
4 to 5 ft.	40.00

Staphylea Trifolia Per 100	
18 to 24 ins.	\$30.00
2 to 3 ft.	40.00
3 to 4 ft.	50.00
Symphoricarpos Alba	
18 to 24 ins.	16.00
2 to 3 ft.	22.00
3 to 3 1/2 ft.	30.00
Symphoricarpos Chenaulti	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
Symphoricarpos Vulgaris	
18 to 24 ins.	16.00
2 to 3 ft.	22.00
3 to 4 ft.	35.00
Tamarix Amurensis, Hispid,	
Odessana, Africana, Gallica	
18 to 24 ins.	20.00
2 to 3 ft.	25.00
3 to 4 ft.	35.00
Viburnum Dentatum	
18 to 24 ins.	25.00
2 to 3 ft.	35.00
Viburnum Molle	
18 to 24 ins.	25.00
2 to 3 ft.	30.00
3 to 4 ft.	45.00
Viburnum Opulus	
12 to 18 ins.	25.00
18 to 24 ins.	35.00
2 to 3 ft.	45.00
3 to 4 ft.	60.00
Viburnum Opulus Sterile	
12 to 18 ins.	28.00
18 to 24 ins.	40.00
2 to 3 ft.	50.00
3 to 4 ft.	60.00
Viburnum Prunifolium	
18 to 24 ins.	35.00
2 to 3 ft.	45.00
Vitex Macrophylla	
18 to 24 ins.	28.00
2 to 3 ft.	35.00
Weigela Bristol Ruby	
(Pat. No. 492)	
18 to 24 ins.	40.00
2 to 3 ft.	60.00
Weigela Eva Rathke	
12 to 18 ins.	25.00
18 to 24 ins.	35.00
2 to 3 ft.	50.00
3 to 4 ft.	60.00
Weigela Hendersoni	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	45.00
Weigela Rosea	
18 to 24 ins.	22.00
2 to 3 ft.	30.00
3 to 4 ft.	40.00
4 to 5 ft.	55.00

HEDGING PRIVET

Amur River North Per 1000	
12 to 18 ins.	
3 canes and up.	\$ 60.00
18 to 24 ins.	
3 canes and up.	80.00
2 to 3 ft., 2 and 3 canes	80.00
2 to 3 ft., 4 canes and up	100.00
3 to 4 ft., 4 canes	140.00
3 to 4 ft., 5 canes and up	160.00
California	
12 to 18 ins.	
3 canes and up.	50.00
18 to 24 ins.	
3 canes and up.	60.00
2 to 3 ft., 4 canes and up	80.00
3 to 4 ft., 4 canes and up	100.00
Ibolum	
12 to 18 ins.	
3 canes and up.	50.00
18 to 24 ins.	
3 canes and up.	60.00
Ibota Vicari Per 1000	
12 to 15 ins.	\$200.00
15 to 18 ins.	270.00
18 to 24 ins.	350.00
2 to 2 1/2 ft.	400.00



ESTABLISHED 1875

One of America's Foremost Nurseries

Mount Arbor Nurseries

• SHENANDOAH IOWA •

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Fort: To Make America More Beautiful and Fruitful

VOL. XCI, No. 2

JANUARY 15, 1950

Founded 1904
With which was merged 1939
THE NATIONAL NURSERYMAN
Established 1893

* * * * *

Published on the
first and fifteenth
of each month by the
AMERICAN NURSERYMAN
PUBLISHING COMPANY
343 South Dearborn Street,
Chicago 4, Illinois.
Telephone: WAbash 2-8194

* * * * *

Subscription Price:
\$3.00 per year; outside
United States, \$4.00;
Single Copies, 15c.

* * * * *

Advertising Rates
on application.
Forms close fifteen days
before date of issue.

* * * * *

Entered as second-class matter
December 14, 1933, at Chicago,
Ill., under act of March 3, 1879.

CONTENTS

Chinese Chestnut Varieties.....	7
By Clarence A. Reed	
Hardiness of Nursery Stock.....	9
By Dr. Leon Snyder	
Michigan State Opens New Greenhouses.....	10
Charlie Chestnut	11
A Letter to The Pres.	
Western Washington Horticultural Meet.....	13
By C. W. Wieting	
Plant Notes Here and There.....	15
By C. W. Wood	
Editorial	6
—Picture Windows	6
—Why Several Names?.....	6
—Creating Buying Power.....	6
—Secretaries, Please Note.....	6
Armstrong Rose Wins ..	12
World Awards	12
Dr. Bailey Injured.....	12
Honey to Michigan.....	12
Harold H. Clegg (Portrait).....	12
Landscaped Office	14
Coming Events	20
—Meeting Calendar	20
—Illinois Speaker	20
—Kentucky Dates	20
—Washington Program	20
—Pennsylvania Program	20
—Ohio Program	22
—Virginia Program	24
—Michigan Plans	26
—Tennessee Program	28
—Oregon Plans	30
—Combined New England- Massachusetts Program	32
—Virginia Landscape Short Course	34
This Business of Ours.....	36
—Plants That Change Their Character	36
—The Holly Osmanthus.....	36
Cover Illustration	38
—Picea Glauca Conica.....	38
Nurseryman's Daughter Weds Professor's Son	39
Obituary	40
—W. W. Wilmore.....	40
—Ross G. Minich.....	40
—W. L. Thompson.....	41
Rotogravure Features	
Musser Christmas Trees.....	42
Donates Roses to City for Beautification	42
Mowry Resigns in Florida.....	43
Roses by Air to Philippines.....	44
Long Island Institute Starts Expansion	44
On Minnesota Staff.....	44
Flower Grower Changes.....	45
All-purpose Rotary Garden Tractor	46
New Daytona Firm.....	46
Garden Institute Merges.....	47
California Association of Nurserymen	48
—California Association in Thirty-ninth Year.....	48
—Los Angeles Party.....	50
—San Fernando Party.....	50
—San Joaquin Party.....	50
California Notes	51
To Introduce New Rose.....	52
California Peaches	52
Nacconal as Defoliant for Nursery Stock	53
Gives Garden to Nation.....	55
Self-loading Sprayer	65
Heads Ohio Forestry Department	69
All-America Flowers and Vegetables for 1950.....	70
Catalogs Received	71
New Plant Patents.....	72

INDEX TO ADVERTISERS

Accurate Tool Co.	25	Gold Chestnut Nursery	26	Pacific Coast Nursery	54
Alanwold Nursery	26	Gresham's Nursery	30	Pacific Northwest Rose Nursery	55
Allen Co.	72	Grootendorst & Sons, F. J.	46	Pallack Bros. Nurseries, Inc.	58
American Bulb Co.	48	Cro-Quick	68	Payne Dahlia Farms	43
American Florist Supply Co.	68	Growers Exchange, Inc.	41	Peckskill Nurseries	46
Andrews Nursery Co.	37			Perry Nursery Co., O. H.	46
Anthony & Co.	63			Peterson & Dering	54
Ariens Co.	66			Phingsl's Nursery	57
Arp Nursery Co.	34	Half Moon Mfg. & Trading Co.	47	Plant Marvel Laboratories	70
Arterburn Nursery, Paul	45	Halpern Bros.	72	Plumfield Nursery Co.	30-32
Athens Nursery Co.	34	Harrison Bros. Nurseries	47	Pontiac Nursery Co.	41
Aitkin's Sons, L.	74	Heasley's Nurseries	32	Portland Whlse. Nursery Co.	74-55
		Henderson & Co., Peter	49	Premier Peat Moss Corp.	61
		Henry Nurseries	40	Premier Southern Ticket Co.	73
		Herbst Bros.	1	Princeton Nurseries	33
		Hess' Nurseries	33		
Bacatelle Nursery	20	Hillcrest Gardens	50		
Bailey Nurseries, J. V.	42	Hill Nursery Co., D.	75-76		
Bail, Inc., George J.	63	Hill's Nursery	72		
Barker Mfg. Co., Inc.	61	Hobbs & Sons, Inc., C. M.	43		
Benedict, C. H.	47	Homestead Nurseries, The	32		
Berrhill Nursery Co.	42	Horsford, William Crosby	32		
Blackmoor Estate, The	47	Howard Rose Co.	53		
Blackwell Nurseries	35	Huebner's Evergreen Nursery	30		
Cobbink & Atkins	30	Humphreys Landscape Service	45		
Band Equipment Co.	68				
Boxwood Gardens	35				
Boyd Nursery Co.	38				
Brimfield Gardens Nursery	20				
Broadway Machine & Mfg. Co.	64				
Brookville Nurseries	32				
Brouwer's Nurseries	32				
Brown Deer Nurseries	41				
Brownell Roses	24				
Bryant's Nurseries	41				
Buntlings' Nurseries, Inc.	29				
Burr & Co., C. R.	26				
Burton's Hilltop Nurseries	42				

Forms for the February 1 issue will close Friday, January 20.

Mail copy to arrive at Chicago by that date—no later!

C. L. VANDERBROOK & SON Manchester, Conn.

QUALITY MERCHANDISE AT REASONABLE PRICES

ACTUAL GRADE COUNTS ON ALL WAREHOUSE STOCK

All prices subject to change without notice. Boxing or baling additional. TERMS: 2 per cent 10 days, net 30 days. Interest at 6 per cent on delinquent accounts.

EVERGREENS

These can be shipped INSIDE the Japanese Beetle area ONLY.

	Each		Each
25 Juniper, Irish, 5 ft.....	\$2.50	1290 Taxus Cuspidata, 15 to 18 ins.....	\$2.00
25 Juniper, Irish, 3 ft.....	1.75	25 Taxus Cuspidata Nana, Dwarf, 12 to 18 ins.....	2.25
4 Juniper, Stricta, 2 to 3 ft.....	2.00	60 Taxus Cuspidata, Upright Columnar, 2 to 3 ft.....	2.75
6 Juniper, Stricta, 18 to 24 ins.....	1.50	195 Taxus Cuspidata, Upright Columnar, 18 to 24 ins.....	2.50
50 Taxus Baccata, 18 to 24 ins.....	2.50	250 Taxus Cuspidata, Upright Columnar, 18 ins.....	2.00
200 Taxus Brevifolia, 18 ins.....	2.00	90 Taxus Media Hatfieldi, 12 to 18 ins.....	2.00
200 Taxus Brevifolia Nana, 18 ins.....	3.00	54 Taxus Sieboldi, 18 ins.....	2.50
100 Taxus Brevifolia Nana, 12 to 18 ins.....	2.50	75 Thuja Vervaeckiana, 3 to 4 ft.....	3.00
150 Taxus Capitata, 18 to 24 ins.....	3.75		

ORNAMENTAL TREES

	Each		Each
1 Birch, Columnaris, 6 to 8 ft.....	\$2.50	14 Birch, Columnaris, 5 to 6 ft.....	\$2.00
		Salix Babylonica—See listing under shrubs.	

CHECK THESE SPECIALS

	Each		Each
7 Climbing Rose Dorothy Perkins, No. 1.....	\$0.15	700 Retinospora Plumosa Aurea, 3-yr., lining-out, 6 to 12 ins.....	\$0.50
5 Hex Verticillata, 6 to 8 ft.....	3.00	Weeping Willows—see Salix Babylonica listing under Shrubs.	
100 Retinospora Plumosa, 3-yr., lining-out, 6 to 12 ins.....	.25		

ROSA MULTIFLORA JAPONICA

Budding Stock

	Per 1000
3 to 4 mm.....	\$25.00
4 to 6 mm.....	32.00
6 to 8 mm.....	38.00

Conservation Grades

	Per 1000
8 to 15 ins., 1 to 3 mm.....	\$30.00
12 ins and over, 4 to 12 mm.....	30.00

Write for special quantity prices in both grades.

FAMOUS CONNECTICUT VALLEY-GROWN BARBERRY SEEDLINGS

Barberry Thunbergi, 2-yr., not transplanted
Stocky seedlings—Can be used in place of 1-yr. seedlings.

	Per 1000
14,800 12 to 18 ins.....	\$20.00
32,600 9 to 12 ins.....	10.00
68,500 6 to 9 ins.....	7.00

RED-LEAVED

	Per 1000
134 12 to 18 ins.....	\$30.00
550 9 to 12 ins.....	25.00
700 6 to 9 ins.....	20.00
550 3 to 6 ins.....	15.00

Certified for shipment by U. S. Government Permit No. 76.

2-YEAR, FIELD-GROWN SHRUBS and VINES

	Each		Each
6 Actinidia Arguta, No. 1.....	\$0.35	453 Ligustrum, California, 18 to 24 ins.....	\$0.05
60 Akebia Quinata, No. 1.....	.35	525 Ligustrum, California, 12 to 18 ins.....	.04
27 Akebia Quinata, No. 2.....	.30	1345 Ligustrum Infolium, 18 to 24 ins.....	.06
80 Almond, Pink, 3 to 4 ft.....	.50	5040 Ligustrum Infolium, 12 to 18 ins.....	.05
400 Almond, Pink, 2 to 3 ft.....	.40	6 Lonicera Heckrotti, No. 1.....	.30
418 Almond, Pink, 18 to 24 ins.....	.30	9 Lonicera Heckrotti, No. 2.....	.25
207 Almond, Pink, 12 to 18 ins.....	.25	33 Lonicera Morrowi, 3 to 4 ft.....	.30
5 Almond, White, 3 to 4 ft.....	.50	29 Lonicera Morrowi, 2 to 3 ft.....	.25
26 Almond, White, 2 to 3 ft.....	.40	50 Lonicera Morrowi, 18 to 24 ins.....	.20
6 Almond, White, 18 to 24 ins.....	.30	50 Lonicera Tat. Rubra, 3 to 4 ft.....	.25
218 Ampelopsis Quinquifolia, No. 1.....	.20	180 Lonicera Tat. Rubra, 2 to 3 ft.....	.25
100 Ampelopsis Quinquifolia, No. 2.....	.15	40 Lonicera Tat. Rubra, 18 to 24 ins.....	.20
200 Ampelopsis Vitis, 2 to 3 ft.....	.30	16 Lonicera Tat. Rubra, 12 to 18 ins.....	.15
825 Ampelopsis Vitis, 18 to 24 ins.....	.25	13 Philadelphus Grandiflorus, 3 to 4 ft.....	.25
46 Aralia Pentaphylla, 3 to 4 ft.....	.25	11 Stephanandra Flexuosa, 12 to 18 ins.....	.20
70 Aralia Pentaphylla, 2 to 3 ft.....	.20	180 Philadelphus Grandiflorus, 18 to 24 ins.....	.15
27 Aralia Pentaphylla, 18 to 24 ins.....	.15	50 Philadelphus Grandiflorus, 12 to 18 ins.....	.10
50 Aralia Pentaphylla, 12 to 18 ins.....	.10	2665 Philadelphus Virginialis, 18 to 24 ins.....	.30
1510 Berberis Thunbergi, 3-yr. P.G., 12 to 18 ins.....	.15	4150 Philadelphus Virginialis, 12 to 18 ins.....	.22
1550 Berberis Thunbergi, 3-yr. P.G., 9 to 12 ins.....	.08	14 Rosa Rugosa, 2 to 3 ft.....	.30
16 Buddleia Magnifica, No. 1.....	.15	725 Salix Babylonica, 4 to 6 ft.....	.60
10 Celastrus Scandens, No. 2.....	.25	1525 Salix Babylonica (True), 3 to 4 ft.....	.45
20 Clethra Alnifolia, 18 to 24 ins.....	.30	1138 Salix Babylonica (True), 2 to 3 ft.....	.35
3 Clethra Alnifolia, 12 to 18 ins.....	.25	500 Salix Babylonica, 18 to 24 ins.....	.25
3 Clethra Alnifolia, 9 to 12 ins.....	.15	6 Sambucus Aurea, 3 to 4 ft.....	.30
27 Cornus Flav. Lutea, 2 to 3 ft.....	.25	21 Spiraea Anthony Waterer, 9 to 12 ins.....	.15
14 Cornus Sibirica, 2 to 3 ft.....	.20	289 Spiraea Froebeli, 18 to 24 ins.....	.25
64 Cornus Sibirica, 18 to 24 ins.....	.15	16 Spiraea Trichocarpa, 18 to 24 ins.....	.20
165 Cornus Stolonifera, 3 to 4 ft.....	.25	40 Spiraea Vanhouttei, 12 to 18 ins.....	.15
268 Cornus Stolonifera, 2 to 3 ft.....	.20	12 Stephanandra Flexuosa, 18 to 24 ins.....	.25
20 Cornus Stolonifera, 18 to 24 ins.....	.15	80 Stephanandra Flexuosa, 12 to 18 ins.....	.20
160 Cydonia Japonica, 9 to 12 ins.....	.15	60 Symphoricarpos Chenaulti, 2 to 3 ft.....	.25
119 Forsythia Spectabilis, 2 to 3 ft.....	.20	68 Symphoricarpos Chenaulti, 18 to 24 ins.....	.20
264 Forsythia Spectabilis, 18 to 24 ins.....	.15	25 Symphoricarpos Chenaulti, 12 to 18 ins.....	.15
10 Forsythia Suspensa, 3 to 4 ft.....	.35	25 Symphoricarpos Racemosus, 18 to 24 ins.....	.20
45 Forsythia Suspensa, 18 to 24 ins.....	.15	183 Symphoricarpos Vulgaris, 2 to 3 ft.....	.25
1725 Hydrangea A.G., 12 to 18 ins.....	.20	156 Symphoricarpos Vulgaris, 18 to 24 ins.....	.20
285 Hydrangea P.G., 18 to 24 ins.....	.35	15 Symphoricarpos Vulgaris, 12 to 18 ins.....	.15
166 Hydrangea P.G., 12 to 18 ins.....	.25	10 Syringa Vulgaris, 18 to 24 ins.....	.30
180 Hydrangea P.G., 9 to 12 ins.....	.20	45 Syringa Vulgaris, 12 to 18 ins.....	.25
12 Kerria Japonica, 12 to 18 ins.....	.25	35 Tamarix Amurensis, 3 to 4 ft.....	.30
690 Ligustrum Amurensis, 3 to 4 ft.....	.13 1/2	6 Viburnum Americanum, 18 to 24 ins.....	.20
3080 Ligustrum Amurensis, 2 to 3 ft.....	.12	7 Viburnum Americanum, 12 to 18 ins.....	.15
1960 Ligustrum Amurensis, 18 to 24 ins.....	.10	20 Viburnum Americanum, 9 to 12 ins.....	.10
2625 Ligustrum Amurensis, 12 to 18 ins.....	.05	100 Viburnum Dentatum, 18 to 24 ins.....	.20
160 Ligustrum, California, 3 to 4 ft.....	.08	136 Viburnum Dentatum, 12 to 18 ins.....	.15
550 Ligustrum, California, 2 to 3 ft.....	.06	33 Viburnum Opulus, 9 to 12 ins.....	.10
		10 Viburnum Tomentosum, 18 to 24 ins.....	.25
		56 Weigela Rosa, 3 to 4 ft.....	.40
		50 Weigela Rosa, 2 to 3 ft.....	.30
		20 Weigela Rosa, 18 to 24 ins.....	.25
		4 Wistaria Sinensis, No. 1.....	.25
		22 Wistaria Sinensis, No. 2.....	.20

AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*
Joan L. Kilner, *Assistant Editor*

Editorial

PICTURE WINDOWS.

Misapplications of architectural features have resulted in absurdities in home design in every generation. In the present, the picture window is an example. Originally it was a thing of joy and beauty for those whose dwellings looked out over mountains, valleys, seashore or lake, or some other view of scenic attraction. When the house is placed properly on the home grounds, the outlook through the picture window can be, or can be made, pleasurable to the eyes even if not scenically spectacular.

But when the picture window looks out upon an unattractive highway or the unadorned walls of another residence or something equally lacking in beauty or scenery, the feature is inappropriate, to say the least.

By the time the nurseryman or landscape contractor has been sought to plant the grounds, the house has become well advanced in construction and the picture window is in, regardless of its outlook. If the house is on a small lot or the lawn in front of the picture window is shallow, there is not much that can be done to remedy the blunder. But in some cases the outlook can be modified by the planting of suitable trees and shrubs to give a view through the picture window which has something of beauty the year around, despite the surroundings.

Much ingenuity and thought, as well as care in design and planting, will be needed if the nurseryman is to provide a picture for those windows which have none naturally. The number of them is likely to provide a challenge that should stimulate our designers and plantmen.

WHY SEVERAL NAMES?

There was turmoil in the office of a wholesale nursery one day last month. A check had been received, and the signature on it was not to be found among the names on the firm's ledgers. None of the heads of the firm or the salesmen recognized the name at all. There was considerable chagrin, until a bright stenographer remembered she had seen that name in the correspondence of

one of the firm's customers. So she saved the day, but in the subsequent investigation it was found that the customer operated under four different names, none of which was that signed to the check.

This case was unusual only because not all of the customer's trading names were known to the wholesale firm. Many small firms, and a few large ones, operate under more than one title. In the case of the large operators, one title may cover the retail business and the other the wholesale business; that is not uncommon and is understandable.

But the smaller the firms, it sometimes seems, the more names employed without rhyme or reason. John Jones, at Smithville, operates under his own name and also does business as the Jones Nursery and sometimes as the Smithville Nursery. For some reason, perhaps through buying out a competitor, he also operates the Highway Nursery. Why the variation is a question not easily answered.

Why not drop two or three of the names and concentrate on one firm name? It would certainly add dignity in local operations and add to a customer's importance in the wholesale trade.

Perhaps the retailer thinks that by preempting all the most appropriate titles for a nursery in his town he can divert competition. But long familiarity with nursery firm titles leads one to believe that the success or longevity of an enterprise is seldom affected by its name.

CREATING BUYING POWER.

So accustomed did we become, during a long war, to the government's manipulation of business and even living conditions that sometimes we unthinkingly accept the possibility of improving the economic situation by government fiscal policies, price controls and wage-hour laws.

The fact of the matter is that a country, like an individual, can only increase its buying power by actually delivering more in the way of services or merchandise to others. That means he has to learn through experience or skill to do a better job, or he must turn out more merchandise in a given time.

On the national scale, cutting hours of work and making many little dollars out of fewer big ones are not going to give the individual

better clothes to wear, more food to eat or a better house in which to live. Only by turning out more merchandise in those shorter hours are we even going to keep pace in our standard of living. To improve it, we must find ways actually to enlarge our output per hour.

In a recent address, this thought was put in concise phraseology by Harold G. Moulton, president of the Brookings Institute, one of the country's foremost economists, as follows: "Our future prosperity seems to depend very definitely upon our capacity to create additional buying power in the masses of consumers. This requires, of course, an intensification of technological progress, for increasing man-hour output constitutes the only foundation for higher standards of living. This increasing productivity must be accompanied by a constantly broadening distribution of national purchasing power through the medium of an ever-improving ratio of prices to wages. Unless the buying power of the masses, whose wants create markets, is progressively expanding, business management will have to be content with a virtually static condition. There is scant future in trying to sell more goods to the shrinking rich and middle classes, and the foreign outlets will shrink as export subsidies decline and imports increase."

SECRETARIES, PLEASE NOTE.

The practice seems to be increasing, in the printing of folders or booklets containing convention programs of state nurserymen's associations, to include a list of the firms holding membership. In some of these lists, the name of the owner or the principal officer follows the firm or corporate name. The secretaries who have gone to the extra trouble to make that addition have been commended, especially by newcomers or visitors from a distance to the convention. Listing the individual with the firm name makes identification quicker and acquaintanceship easier. Other secretaries would earn much good will by following the same practice.

LOCATED at North Bolton and Shirland avenues, Alexandria, La., Blair Nursery was opened last summer by Elbert L. Blair and C. R. Blair.

Chinese Chestnut Varieties

By Clarence A. Reed

"The greatest single advance the industry can make during the next 100 years will be in the improvement of its varieties" was the unqualified statement made some twenty-five years ago by Dr. U. P. Hedrick to southern pecan growers, when he was director of the New York agricultural experiment station, Geneva. He had just been introduced by Dr. T. H. McHatton, horticulturist at the University of Georgia, Athens, as being the man "whom I think is the world's greatest pomologist." The occasion was the annual convention of the National Pecan Growers' Association at Albany, Ga.

If you doubt the accuracy of Dr. Hedrick's statement, take a look about you. How long would you stay in business with the same varieties of apples, or any other fruit, that your father grew? As an example of progress, the tung nut, a much more recent arrival in southern horticulture than either the pecan in the south or the chestnut in the east, is forging ahead largely on the basis of varietal improvement, and the same can be true with other types of nuts. In pursuing the problem of improving varieties, there is equal need for one to be informed on how to propagate, how to sell and what sort of trees to plant. To help decide on the best varieties to plant, let us consider some of them one by one.

Abundance.

"Abundance is from seeds which I imported from China in the early thirties," wrote Carroll D. Bush, Grapeview, Wash., in November, 1945. "When the young trees were about 3 years old, I cut scions from those which were the most vigorous and had the finest form, and grafted ten or fifteen branches onto the top of a European chestnut, *Castanea sativa*." This branch was one of the first to bear and eventually became his choicest variety. However, on the Pacific coast the Chinese chestnut is not regarded with the high esteem accorded it in the east.

In 1941 Mr. Bush sold some Abundance trees to easterners in widely separated places. Among these were O. Filman, Aldershot, Ont.; Fayette Etter, Lemasters, Pa., and

E. C. Rice, Absher, Ky. That year the United States Department of Agriculture also purchased a few trees for its use at Beltsville, Md. However, Mr. Etter and Mr. Filman were several years ahead of all others in establishing Abundance in the east, for they had obtained scions of it in 1938 or 1939. From them and their trees, the variety was soon spread to the plantings of H. F. Stoke, Roanoke, Va., and Dr. J. Russell Smith, Swarthmore, Pa. A little later it was established at Oklahoma City, Okla., by A. G. Hirschi. Insofar as reports have been received, all trees of this variety have done well.

Mr. Filman says, "I have several varieties from Mr. Bush. Apparently what I have been calling Abundance is something else. But no matter, I have one or two good ones." He and Mr. Etter are comparing notes and will presently establish the correct identity of Abundance.

Mr. Stoke says, "I have never seen a nut that cleans better or that is better to eat. The nuts do not split when ripening."

Mr. Hirschi tells us that "For us in Oklahoma, it appears to be one of the best yet introduced. It has so far withstood our difficult climate, where there are frosts in the late spring and early fall and severe dry spells at any time of the year."

Mr. Etter has probably had more experience with Abundance than all other easterners combined. He has

grafted some 600 trees without a failure. He says it is a regular bearer, not overbearing one year and failing, or partly so, the next. The photograph reproduced on this page shows one tree which was grafted in 1940 and began bearing the next year. It increased its yield annually, with one exception, when the yield fell from eight pounds in 1944 to five pounds in 1945. The next year, only six years after grafting, the tree bore seventeen pounds of nuts. The range was from one-quarter pound in 1941 to twenty-five pounds in 1948. Its total for the eight seasons was seventy and one-quarter pounds.

The nuts ripen and fall free from the bur in two or three weeks' time. They are attractive in appearance, since they have almost no down over the surface and are uniform in size. In the 1945 crop nuts ranged from thirty-eight to sixty-six per pound and averaged fifty for the lot. There are usually three in a bur, with those in the middle rarely being objectionably small. Abundance is easily grafted and unites readily with almost any stock, although a Chinese variety of close relationship is most desirable. However, for nut production, the use of Japanese chestnut seedlings is not recommended under any circumstances.

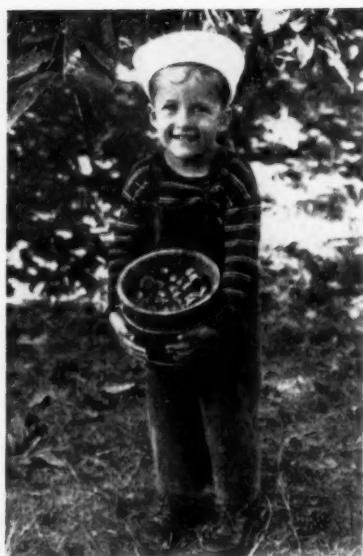
Carr.

The Carr chestnut originated as one of two seedlings sent by the



An Abundance Chinese chestnut tree belonging to Fayette Etter, Lemasters, Pa., 6 years old from the graft and bearing seventeen pounds of nuts.

Clarence A. Reed is collaborator, United States Department of Agriculture, bureau of plant industry, soils and agricultural engineering, Beltsville, Md.



Mike Hemming commends the Hemming variety to his progenitors.

United States Department of Agriculture to the late R. D. Carr, Magnolia, N. C., in 1915. Sample nuts so favorably impressed the department in 1930 that the variety was immediately named in Mr. Carr's honor, although its propagation was not begun until 1932, when it was first grafted by Mr. Stoke. Incidentally, this is believed to be the first instance of Chinese chestnut grafting in this country.

Later Carr became available from several nurseries. It was a strong grower, but its scions so often failed to be permanent that it has since been mostly abandoned. Grafted tops broke off within a few weeks to several years after being grafted at Beltsville, Md., and Albany, Ga. The variety is now carried by few nurserymen. Carr nuts are small in comparison with most of the later introductions, but in sweetness and cleaning quality, the variety is about all one could desire.

Colby (Illinois 31-4).

In 1931, Dr. A. S. Colby, of the department of horticulture, University of Illinois, Urbana, began hybridizing the chestnut by applying Chinese pollen to certain varieties of the European species grown by the family of the late E. A. Riehl, Godfrey, Ill. From the resulting seedlings, his No. 4, Fuller x mollissima, produced what Mr. Stoke, who has grown it for seventeen years, regards as the most outstanding chestnut that has ever come to his attention. The tree is remarkable for its beauty and vigor, and the nut is large and handsome.

With Mr. Stoke, Colby has been practically free from blight, and he is using his ingenuity to keep it so. However, Dr. Colby writes that the parent tree did not blight until the spring of 1948, when it became diseased and had to be cut down. It is here called Colby for the first time, and while Dr. Colby did not give his full approval, he did not say it should not be done.

Conard.

Conard was first listed in the fall, 1948, catalog of Dr. J. Russell Smith, Swarthmore, Pa., proprietor of Sunny Ridge Nursery, Round Hill, Va. He wrote, "Dr. H. S. Conard is a Philadelphia Quaker, who became the professor of botany at Grinnell College, Grinnell, Ia. He had two chestnut trees which withstood the terrific Armistice day blizzard of 1940, when the thermometer dropped from the temperatures of a warm sunny afternoon to 20 degrees below zero overnight. Several persons were frozen to death, and many apple trees were killed, but the chestnut trees came through in good shape.

"I think of it as the blizzard strain, but do not recommend it for any place except the extreme north, as it is probably not equal to other varieties. It is Chinese and bears reasonably well."

Dr. Conard wrote December 4, 1948, "My chestnut trees came from the division of plant exploration and introduction some twenty years ago. They are on the grounds of Grinnell College and do not properly belong to me, but no one else knows or cares anything about them.

"I cannot say when the first crops came in. The trees bear every year, and the nuts are ripe before frost. There are no other Chinese chestnuts known to be within fifty miles. I once sent specimens to Washington, D. C., and was told that they were inferior to other introductions. I hardly know when they ripen, since squirrels cut them off while they are still in the bur. I have sent scions and sample nuts to Dr. Smith and the Snyder brothers, Center Point, Ia."

The Conard variety probably should not be passed by too lightly, as we have yet to see a pure Chinese chestnut that is not good to eat at some stage of maturity. One that proves hardy under such conditions as Dr. Smith describes may prove useful in outlying districts.

Hemming.

Hemming is No. 16 in a row of nineteen trees sent by the United States Department of Agriculture to

Eastern Shore Nurseries, Inc., Easton, Md., of which Ernest Hemming is senior, silent partner.

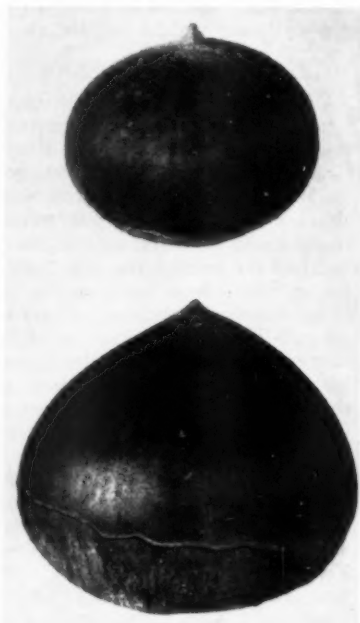
Mr. Stoke, who is one of the most valuable cooperators in nut matters with the United States Department of Agriculture, says, "I have one tree onto the top of which I grafted six scions, all of which made good unions.

"I think highly of this variety. Its chief faults lie in its tendency to variability in size and a tendency of occasional nuts to split open when ripe. Its quality is of the best, and the nut is of superb mahogany color. I hope the Hemmings will propagate it."

Hobson.

Hobson originated as one of two seedlings sent by the United States Department of Agriculture to a private grower, James Hobson, Jasper, Ga. It was named in his honor soon after the Carr variety received its name. Hobson was later taken up by nurserymen and was widely distributed for several years. It has much to commend it, since it is precocious, prolific, annual in bearing, and the nuts are sweet. The cleaning quality also is good, but the nuts are too small to meet requirements of harvesting and marketing. The variety lost favor and is now propagated by few nurserymen. It is, however, too good for home use to abandon. Mr. Stoke says it is entitled to a better break than it has received. Dr. Smith

[Continued on page 66.]



Typical Chinese chestnut above and typical Japanese chestnut below.

Hardiness of Nursery Stock

By Dr. Leon Snyder

In Minnesota we are much concerned with the hardiness of nursery stock sold. Over the years we have built up considerable information on the hardiness of certain fruits, but even here the hardiness picture is far from complete for many parts of the state. In the case of ornamental trees and shrubs, we know little about the degree of hardiness in most parts of the state. The progress thus far in zoning Minnesota for woody plants is but a beginning, and it may take years before the accuracy of this list can be relied upon.

Let us consider the factors that make a tree or shrub hardy. Webster defines "hardiness" as the "capability of endurance." A hardy plant is generally understood to be one that can withstand winter conditions in a given locality without winter protection. A number of factors influence the hardiness picture. Some of these will be considered.

1. Source of seeds or planting stock.—Most species have a rather narrow geographical range and thrive only in the region where they are native or in regions with similar climate. Even within the geographic range of a species, there is considerable variation in the hardiness of the plant. For example, seeds of the Douglas fir collected on the eastern slope of the northern Rockies will grow into trees that survive our Minnesota winters, while seeds collected in Washington or Oregon would fail completely. In the case of the Chinese elm, the Harbin strain from northern Siberia appears to be completely hardy, while the usual strains from farther south in China are quite tender. Even the grafted American elms selected from trees within the state, such as the Lake City and Minneapolis Park elms, are harder than strains selected farther south or east. It is generally safest to plant seeds from healthy plants growing near the nursery or to obtain cuttings or scion wood from similar plants.

2. Growth habits.—Woody plants can be grouped into two groups according to their growth habits. The group with determinate growth makes its growth early in the grow-

ing season and has a longer period to ripen its wood before winter. Plants in this group usually develop prominent terminal buds. The lilac, ash and Ohio buckeye are familiar examples. Most plants in this group are quite winter hardy.

The group with indeterminate growth continues to develop new wood as long as the growing conditions are favorable. The grape and Chinese elm are good examples of this group. Many plants with this type of growth are subject to winter injury following a mild wet fall that favors late growth.

3. Soil.—The soil in which a plant grows has a lot to do with whether the plant comes through the winter without injury. Plants vary considerably in their soil requirements. We find, in nature, the winterberry growing in cool wet acid soil, the bush cinquefoil growing where there is a lime outcrop, the jack pine growing in sand, and, the sugar maple growing in heavier soils rich in organic matter. Since a plant's ability to come through the winter depends on its general health, it will be best to grow plants in the soil type to which they are best adapted. We find that soil drainage is important for certain plants; the redbud and beautybush are generally considered quite tender, yet when they are grown on well drained soils they come through the winter in the Twin Cities area with but little injury.

4. Effect of diseases and insect attacks.—Only vigorous, healthy plants can be expected to come through our winters. Plants that have been weakened by repeated insect attacks or by disease are much more likely to winterkill. The cytospora canker disease, no doubt, predisposes the holciana and Lombardy poplars to winter injury.

5. Degree of dormancy.—Some plants have a short rest period, and a few warm days in winter are sufficient to cause the buds to become active, with subsequent injury. This is likely to happen with plants grown north of their natural range, such as the forsythia.

6. Minimum temperatures.—The failure of many plants to survive Minnesota winters is due to the effect of extremely low temperatures on the cells of the plant. As winter approaches, a number of changes occur within the plant. The starch

stored in the stems and buds changes to sugars. There is a decrease in the amount of free water and a corresponding increase in the amount of bound (unfreezable) water. These changes make it possible for the plant to withstand low temperatures without injury. The extent to which these changes occur determines the minimum temperature that the plant will withstand.

It can be seen from the above discussion that winter hardiness is a complex problem and that the success or failure of a planting depends on a number of factors. In searching for new and harder materials it is best not to overlook our native plants. These plants are hardy or else they would not be here. In general, they are freer of insects and diseases than their European cousins. Just compare the susceptibility of the native highbush cranberry and its European cousin, the snowball bush. Aphis usually infest the snowball each year to the point where it has little value. The native highbush cranberry, on the other hand, is seldom seriously affected.

In addition to being hardy, a plant must have certain other desirable characteristics. Color is probably of first importance. By color we refer not to the color of the flowers alone. The desired color may be in the summer foliage, the fruits, the autumn foliage, or in the twigs and stems. The best trees and shrubs are those that have interesting colors over a long period. The sugar maple is known for its brilliant autumn colors, the red maple for the red buds in the spring as well as for its autumn color, the white birch for its white bark and golden autumn leaves. The red-stemmed dogwoods have interesting white flowers followed by white summer fruits. As fall approaches the leaves turn color, and when the leaves have fallen one still has the brilliant red twigs to enjoy through the winter. Of course, we appreciate plants that have beautiful bloom, but this feature alone is often overemphasized. No one will deny that the flowering plum is beautiful when in bloom, but after the fleeting bloom has past there is nothing particularly attractive about the shrub.

With color we usually associate fragrance. One can scarcely walk by the Russian olive when it is in bloom without being aware of its fragrance.

[Continued on page 64.]

Talk by Dr. Leon Snyder, extension horticulturist, University of Minnesota, before the Minnesota State Nurserymen's Association, at St. Paul, December 5.

Michigan State Opens New Greenhouses

Visitors from over the country attended the formal opening of the new \$400,000 Plant Science greenhouse range at Michigan State College, East Lansing, on January 12. Located about a half mile from the Horticultural building and the old greenhouses, the new houses form in reality a laboratory under glass which covers over 57,000 square feet.

The new range was financed through special legislative appropriations obtained largely through the efforts of the Michigan Agricultural Conference, which represents seventy-four agricultural organizations in the state and in which the Michigan Association of Nurserymen, the Michigan State Florists' Association, the Michigan Vegetable Growers' Council and others play an important part.

The program for the formal opening included a special preview for the Michigan state legislature, the Michigan state board of agriculture, the Michigan Agricultural Conference and invited guests. The official opening took place in the afternoon, when Ernest L. Anthony, dean of the school of agriculture; Charles Force, chairman of the Michigan Agricultural Conference, and James Sykora, Chicago vice-president of the Society of American Florists, presided. Afterward there were conducted tours of the greenhouses and inspection of new laboratory facilities in the Horticultural building. The annual meeting of the Michigan Agricultural Conference was held in the afternoon, and in the evening

there was a banquet in the Michigan State College Union building.

Representing Michigan nurserymen, were James E. Ilgenfritz, Monroe, president of the American Association of Nurserymen; Arthur L. Watson, Grand Rapids, past president of the Michigan Association of Nurserymen, and Bernard Ward, secretary treasurer of the Michigan Association of Nurserymen.

The general over-all plan was developed by Dr. Paul R. Krone, working with heads of the various departments concerned and with the greenhouse committee of the Michigan Agricultural Conference, whose members included Bernard Ward, Lansing nurseryman; B. W. Toornman, Kalamazoo florist, and John Haack, Armada vegetable grower. The detailed plan was prepared by Lord & Burnham, with Walter Kelsey, of that firm, serving as consultant.

The operation of the greenhouses has been placed in the hands of a special all-college committee consisting of Dr. H. B. Tukey, head of the horticultural department; Dr. L. L. Turk, soils department; Dr. William Drew, botany department; Dr. Ray Hutson, entomology department; Prof. Roy Decker, farm crops department, and Dr. Paul Krone, floriculture department, who is chairman of the committee and general manager of the range.

The new range is divided into fifty-seven individual compartments, each separately controlled by thermostats and automatic valves and each

equipped with top and side ventilation. Two of the houses are Lauer aluminum houses and the rest are Lord & Burnham steel-frame, truss houses, thirty-six feet wide. Twenty-inch glass is used throughout.

Steam for heating is supplied by the college's central heating system. The greenhouse heating system is of the trombone type, with overhead lines in some houses to support those used along the walls and under the benches. Radiant heating is being tried in one house.

A variety of growing benches and beds, including tile, wood, watertight concrete, Transite and Apac, has been installed. Plans call for erection of beds of other types experimentally during the year. An auxiliary high-pressure steam line has been installed for soil sterilization in each of the houses, and ground beds are equipped with tile for sterilization.

Special lighting is provided in several houses to supplement natural daylight. Three darkrooms have been provided, two to permit photoperiodic studies, and one to facilitate experimental work in propagation under artificial light and under lights of varying wave length.

The greenhouses are all connected by a passage corridor that runs the full length of the range, and the passageway is wide enough so that a truck may be driven through it to service the houses. Four offices and laboratories are provided in the head house for those doing experimental work in the greenhouses. There are two walk-in refrigerators, plant storage room, an insulated bulb storage room and other larger service and storage rooms.

The new range is to be used entirely for research in plant sciences. Provisions are made for basic research as well as applied research in nursery crops, botany, entomology, floriculture, vegetable crops, fruits, soils and farm crops. Approximately half of the range has been assigned for research work on ornamental crops.

RECENTLY Burbank Floral & Nursery were started at 257 Burbank avenue, Dallas, Tex., by O. M. Blasingame.

HAVING operated Smith's Greenhouses at Ferguson, Mo., with Mary, Tom and Charles Smith, T. Mahan Smith announces that they will start business in spring as Dix Nursery, at Route 1, Box 149, Jefferson City, Mo.



New \$400,000 Greenhouse Research Center at Michigan State College.



CHARLIE CHESTNUT



A LETTER TO THE PRES.

Dear Jim:

Well Jim, you made it! Remember back in the war years when you were fighting the war all weighted down with brass you were wondering if you would ever get back to your nursery. Probably you never thought the members would make you the pres. of the convention. But you can never tell about the members, they do some mighty funny things.

At different times I have offered suggestions to the pres. and so far as I am concerned you need a little pep talk the same as anybody. For instance I been reading that the convention is now 75 years old. The members are looking for something special. One of my neighbors has got a parrot I could get practically for free. This is on account of he can only say three words as follows "Win with Dewey." Now here is the idea. Some of the members say they will be darned if they will go to Washington on account of all the Democrats. Here is where my parrot would come in. You could put the cage right in the meeting room so the members from Maine, New Hampshire, New Haven and Hartford would feel better about it. It would seem more homelike to have the Republican atmosphere. Let me know what you think.

I run on to a funny situation the other day where a speaker was telling how you could raise 600 bushels of potatoes per acre instead of 200. All you have to do is fertilize and irrigate. For heavens sake, Jim, don't put any speakers on the program with ideas like that. If we can't consume at the rate of 200 bushels per acre, how in the world will we dispose of three times as much. Some of the members might start raising three times as many osage orange or catalpa bungei, then we would have to ask for a subsidy from Congress.

Now that brings me to my next point. Why is it that the government in Washington buys up surplus potatoes, milk, butter, etc., thereby keeping the farmers pepped up so they will vote right? According to all the rules, we nurserymen are farmers. We raise crops. We raise too much of some items. We could easily raise too much of a lot of items if there is any chance to get a subsidy

established for nursery stock. If you could work up that idea, Jim, probably the members would be glad to run you for two or three terms. Take it up with the Washington, D. C. office and put a committee on it. Don't put Emil on it however, as he is only interested in a subsidy on honeysuckle, and some of the members would doubtless make a fuss. You have to think of those things when you are pres. of the convention.

Another thing that was brought up at a recent meeting is in regards to the increase in postal rates and cutting down the size of parcel post. Your man in Washington, D. C. was all worked up over it. He wants me to write to my congressman about it. It may be a big surprise to you, Jim, but me and quite a lot of the members, the small members that is, is glad to see it. The only time I ever sent anything by parcel post was two years ago when a customer left his glasses at my place and asked me to mail them along with 25 strawberries. Otherwise it don't mean a thing except it might keep out a lot of guys like John Bushbottom and some others I could mention flooding my customers with their stuff by parcel post. In fact I think the size of packages should be cut down to the size of a cigar box, then maybe some of us local boys could do a little more business and instead of sending the usual \$10 in for dues we could send \$12 or \$14. Think that over, Jim.

Then there is this matter of the next census. We want to be careful how we handle that situation. For several years your man in Washington has been bragging up the nurserymen, how much business they was doing, how many gooseberries was being grown, etc. In fact I was talking to my local senator and he got the idea the nurserymen was second to General Motors, just ahead of the Standard Oil Co. in total importance. Now if we ain't careful the senators will find out we're only as big as the Cracker Salters Union and then when your man in Washington goes around, they will say "You again, go back and tend your rhubarb," or some such remark. It might be best to let well enough alone. Without any figures we are doing O. K. With a portfolio filled with charts and

fancy statistics we might have to stand on the actual figures. Better check with the Washington office and see what he has established among the senators as the relative importance of the nursery business. Maybe he has done a better job than any we could juggle out of the census dope.

It might be a good idea to straighten out some of the members on this new fangled idea of temperature control. I don't think they all got the hang of it yet. Like Mr. Morse was talking to Emil about the awful draft there was in the northwest corner of his house in the pantry. Emil was telling him he should go to work and put in a hedge of Russian olive and everything would be O. K. But before Emil and me could get down there with the Russian olive he called up and cancelled the order. "The Mrs. left the window open about a inch on account of some sourkraut she had in there. I threw out the sourkraut and closed the window," he says. Thats the only deal we worked up yet, but if anything else turns up I will let you know.

Your man in Washington was asking me to keep on the lookout for clippings in the local paper, the Riverbend Gazette, that is. Anything about the nursery business or nurserymen he wants us to send to the Washington D. C. office. Now take last night there was a piece as follows: "Local Nurseryman Goes to Peoria." There was a piece about Emil being a delegate to the Odd Fellows Convention. And the other day, last Thursday in fact, as its only a weekly paper, there was a notice as follows: "Local Nurseryman Donates Christmas Tree." It seems Emil didnt intend to actually give the tree free to the Civic Club, but after it was in the paper he didnt have the nerve to send the bill. It dont seem to me this stuff is really important enough to be cut out and go to the Washington Office but you know best, Jim. If you want more of this stuff, we can fix you up. Thats about the only thing I seen in the paper in regards to nurserymen for the last ten years, since Emil was arrested for shooting a wild goose out of season. Emil wrote up

a piece last spring about honeysuckle which he sent up to the paper, but they called up and said it would cost \$14 for advertising rates, so it didn't run. Our paper is awful cagey about running free stuff. I don't see how the Washington D. C. office gets away with the stuff they claim is out in the papers. Maybe its someplace, but it aint never been in the Riverbend paper.

Now to get back to the program for the convention. The members, as I told you, are expecting some high powered stuff. I was thinking about Senator Snort. I don't know where he hails from, but he is a heavy set windy gent that you see a lot of in the newspapers. Sometimes he puts out with some sage remarks, but you would have to put him at the end of the program. In case he decided to run a filibuster the members could walk out.

Don't overlook somebody from the Federal Trade Commission. Better get the head man if you can. I sure would like to have John Bushbottom in the room when he talks, as John sure could do with a good going over on a lot of his deals. You know John, don't you Jim, he's quite a character.

Probably it would be a good idea to have the top man in the FBI. Not that the members would have to be shadowed in Washington, but some of our wealthy members from out west should be looked after.

Emil hopes you could get Mr. Hoover in person because he wants to get some pointers for his job as deputy sheriff. Emil goes to the post office to look over the criminals posted there on the bulletin board. One time he was almost ready to arrest a man he seen downtown that turned out to be Mr. Morses brotherinlaw. But don't put yourself out for Emils sake because unless he has a big run on honeysuckle next spring, he aint likely to make it to Washington anyway.

Probably some of the backsliding members or some of them from down south would like to have Mr. Truman on the program, but it wouldn't go with the members out this way. They would sooner have Alf Landon. But if you cant get the president, could you get the vice-president, some of us oldtimers has got a real admiration for that man. But we would settle for the Veeps new wife. Sure would like to see her, Jim.

Yours truly,
Chas. Chestnut.

GEORGE L. CURTIS, proprietor of Genesee Nurseries, Flint, Mich., is spending the winter at Miami, Fla.

ARMSTRONG ROSE WINS WORLD AWARDS.

The first rose in history to win all three top awards is Sutter's Gold developed by H. C. Swim, director of research for Armstrong Nurseries, Ontario, Calif. Already an All-America rose selection for 1950 and winner of France's Bagatelle award, Sutter's Gold was last month announced the winner of the famous Concours International de Roses at Geneva, Switzerland. The cup of Geneva and gold medal certificate of the Concours International de Roses were presented to John Awdry Armstrong, vice-president, and Mr. Swim by Dr. Walter Schmid, Swiss consul at Los Angeles, in a ceremony December 22.

Explaining the Concours International de Roses, Dr. Schmid said that each year leading rose hybridizers in every country are invited to



Harold H. Clegg.

enter their finest new developments in this contest, which is sponsored by the horticultural societies of Switzerland and the city of Geneva. The contest is judged for two years, each contest period ending June 2, with a public announcement made later more closely to precede the following year's growing season. The award consists of a gold medal certificate for the best rose entered in the contest, and the cup of Geneva, a beautiful object of art awarded by the city of Geneva for the best hybrid tea rose. Only one of each award is made for each 2-year contest period.

DR. BAILEY INJURED.

Dr. Liberty Hyde Bailey, 91-year-old botanist, fractured his upper left thigh in a fall December 28 at New

AMERICAN NURSERYMAN

York. Hospital authorities described his condition as poor. A resident of Ithaca, N. Y., Dr. Bailey was formerly dean of the college of agriculture at Cornell University and now conducts the Bailey Hortorium there.

HANEY TO MICHIGAN.

Formerly with the Boyce Thompson Institute for Plant Research, Yonkers, N. Y., and with the United States Department of Agriculture, Beltsville, Md., Dr. W. J. Haney has joined the department of horticulture staff at Michigan State College, East Lansing. Dr. Haney received his Ph. D. from the University of Maryland just prior to his enlistment in the marine corps. Following his service he joined the staff of George J. Ball, Inc., West Chicago, Ill., and has also been associated with the Carnegie Institute, Cold Springs Harbor, N. Y.

HAROLD H. CLEGG.

Harold H. Clegg, secretary to the executive committee of the Indiana Association of Nurserymen, was born at Albion, Mich., June 7, 1909. He took undergraduate work at Purdue University, Lafayette, Ind., and at the University of Wisconsin, Madison, before receiving his A.B. degree from De Pauw University, Greencastle, Ind., in 1933. He later did postgraduate work at the Indiana University school of landscape design, Bloomington, and also attended Harvard University.

In February, 1938, Mr. Clegg bought the Varsity Landscape Service, Lafayette, and now operates that business as a subdivision of Associated Sales, a real-estate company, which is also engaged in development of residential subdivisions.

Besides his duties as association secretary, Mr. Clegg is also a member of the subcommittee for planning the program of the association's winter meeting and is also on the committee for nominations. He holds membership in the American Society for Horticultural Science, the American Society for the Advancement of Science and the American Forestry Association.

One of Mr. Clegg's special projects at his nursery is work recently started on dwarf rootstocks for ornamentals. He expects the work to extend over a period of ten years before results can be reported.

As a hobby, Mr. Clegg enjoys the study of plant materials in commerce which are suitable for camouflage.

Western Washington Horticultural Meet

By C. W. Wieting

At a fortieth annual meeting of the Western Washington Horticultural Association December 12 to 14 at Fruit Grange Hall, Puyallup, Dr. John H. Hanley, Seattle, whose activities include being a radio garden commentator and garden editor of the *Seattle Post-Intelligencer*, was chosen president. Morrill Delano, Puyallup, was elected first vice-president, Art Osgood, Lynden, second vice-president, and C. D. Schwartze, of the Western Washington experiment station, Puyallup, secretary-treasurer.

By concentrating their attention on solving modern horticultural problems, speakers found a lively interest on the part of their listeners. Nearly 600 persons attended.

Agricultural Chemicals.

President E. L. Ticknor, Centralia, opened the program by introducing Dr. Folke Johnson, of the western Washington experiment station, Puyallup. The morning theme was "What's New in Agricultural Chemicals?", and Dr. Johnson answered this question regarding fungicides. Because of the tremendous losses incurred throughout the United States from fungous diseases much attention has been given by research and chemical organizations to the development of more satisfactory controls. Referring to the history of fungicidal controls, Dr. Johnson traced the development of the sulphurs from the simple ground dusts to wettable forms and pastes and to liquid lime-sulphur, the last-named being declared the most effective.

Bordeaux mixture was described as the oldest of the copper fungicides. However, like other forms of copper, it is toxic to some plants, especially the cucurbits. Fixed or insoluble coppers find wide use as sprays, dusts and seed treatments, and they are frequently mixed with insecticides. Mercury materials, such as mercuric chloride and mercuric oxide and others, are the most poisonous to man and animals, but, nevertheless, are finding increased use, especially the organic mercury types. A number of forms of organic mercury sprays are available for treatment of apple scab, peach leaf curl, brown rot and cherry spur blight.

After dealing with a number of recently developed materials, including Fermate, Spergon and Phygon, Dr. Johnson discussed the potential

value of chemical therapy. Through the injection of chemicals into the plant system it is sometimes possible to control diseases. Other chemicals may be placed on the soil or in the soil and then be absorbed by the roots and dispersed throughout the plant to control disease.

Recent developments in fertilizers were described by Dr. Karl Baur, western Washington experiment station. Pictures were shown of equipment used to apply nitrogen directly to the root-feeding area of the soil. The nitrogen source is anhydrous ammonia, which is available in cylinders and tanks, as the gas is rapidly lost when released in the air. Consequently, special plow or cultivator attachments are necessary to lead the gas through tubes directly under the soil where it is taken up by the soil. Dr. Baur also described materials that could be used as sources of nitrogen which would not liberate their entire content of nitrogen at one time. By the proper selection of materials such as ammonium nitrate, which has nitrogen partly in the ammonium form and partly in the nitrate form, it is possible to delay the availability of nitrogen until the weather is favorable for plant growth.

Dr. Baur mentioned the value of applying fertilizers directly to plant foliage through spray applications. Response is reported to be more rapid than through applications directly to the soil. This is especially true of some of the minor elements. When the necessarily minute doses of minor elements are applied to the soil they are often made unavailable by the action of other soil chemicals before the plants can use them. Listeners were cautioned about some specially compounded fertilizers for which too enticing claims are made. These compounds are often extremely high in price when the actual fertilizer value of the major nutrients is considered.

After ten years of experimentation with different methods of application, Dr. Baur felt he could recommend as the most economical the banding system. This method of applying fertilizer in a ribbon close to the plants has been found to give better results than broadcasting.

Robert Eichman, of the Stauffer Chemical Co., Portland, Ore., discussed "The Insecticide Situation." He emphasized that Parathion must be used with extreme caution. When

it has been carelessly used some injury to operators has been noted. However, the material is an excellent and powerful insecticide, and, with the proper caution in the use of respirators and protective clothing, it can be used with no injury to the operator. To eliminate the hazard of persons' breathing the fumes when mixing Parathion powders preliminary to spraying, manufacturers now have available paste forms and nondust forms.

DDT was especially recommended for use in the Pacific northwest. Benzene hexachloride in the form of Lindane was suggested as good because of the less prominent odor created. When the long-time effectiveness of Parathion after application would be a disadvantage, Mr. Eichman suggested the use of TEPP. The effect of this material lasts only a short time, but it has a strong insecticidal action before breaking down.

Blueberry Growing.

The afternoon session was given to discussing some problems of small fruit growing, especially blueberries and raspberries. C. E. Bond, Aves Blueberry Farm, Puyallup, spoke on blueberry marketing as it is done in the northwest. Dr. Baur threw some light on the soil needs of these crops. He indicated that the kinds of soils that blueberries will tolerate and on which they will produce a good crop are considerably more varied than was at one time supposed. Experiments show that some sandy loam soils provided with adequate moisture and proper acidity will produce good crops and may have some advantages over the usual peat soils.

The black vine weevil is a serious pest on blueberries and raspberries and also on a number of other crops including many ornamentals. Dr. E. P. Breakey, of the western Washington experiment station, described some ways of controlling this insect in both its grub and adult stages. Benzene hexachloride applied as a one per cent dust about the base of plants was suggested. Fruit-pulp-base poison baits applied about the plants are the best control for adult weevils. Dr. Breakey has found that the best time for application of the baits is when raspberries are just starting to ripen. Sodium fluosilicate or sodium fluoride are the active poisons in the baits.

The kind of nitrogen one uses on

blueberries is just as important as the amount. Sodium nitrate killed blueberry plants whereas ammonium nitrate and ammonium phosphate provided the best stimulation. Best results came from sixty pounds of actual nitrogen per acre, according to Dr. Schwartz's trials. Use of some peat in the soil is important at planting time, and sawdust mulches also proved considerably helpful in keeping the soil cool and moist. Additional nitrogen fertilizers are necessary when a sawdust mulch is used.

Arthur Myhre, of the Western Washington experiment station, presented an analysis of blueberries according to their fruiting, eating and processing qualities. Several varieties were mentioned starting with Weymouth, the earliest, and ending with Burlington, the latest. According to Mr. Myhre, the ideal plant should be of strong growth and of upright habit, with strong fruiting branches, and have a well developed blueberry flavor.

Chemical Weed Control.

The afternoon of December 13 brought together a group of authorities to present the latest findings on weed control. Dr. L. W. Rasmussen, of Washington State College, Pullman, presented an analysis of the chemical control of weeds in general. Three major types of weed control materials were mentioned. First were the soil sterilants, or chemicals that destroy all vegetative growth and often leave the soil incapable of producing other plant growth for some time. This type was suggested for small areas, such as along fence rows where obnoxious growth endangers cultivated lands. Sodium chlorate,

boron compounds, arsenicals, carbon bisulphide and methyl bromide were some kinds mentioned as of value. If strong weeds have infested land needed for crops it may be necessary to select one of these materials for application. Use of the material, however, may mean waiting as long as an entire season before the toxic chemicals disappear from the soil.

The second type mentioned was the contact form of weed killers. These are applied to the soil or to weed growth and tend to enter the plant cells and kill them. Special types of oils are most often used. When the oil is to have a selective effect, Dr. Rasmussen suggested the use of low-boiling oils. The weed-killing effect of oils is often increased by the addition of fortifying materials. When so strengthened this type of weed killer is especially valuable for preemergence application.

While these contact types of weed killers kill the plant tissue, they do not move through the plant system as do the growth regulator types, which provided the third form of weed killer described by Dr. Rasmussen. 2,4-D, TCA, IPC and their various properties were also mentioned.

In a talk on weed control of bulb crops Dr. C. J. Gould urged the cautious use of materials on a trial basis. Bulb foliage is sensitive to some weed killers especially when the leaves are hanging or procumbent so that the material will not run off readily. Good results have been found by using Diesel oils fortified and applied just before bulbs break through the ground. Weed killers of the flame thrower type

have been found effective on gladiolus and some other bulbs.

Session on Ornamentals.

Mrs. L. N. Roberson, L. N. Roberson Co., Seattle, was chairman for the session devoted to ornamental plants.

"Winter Hardiness in Woody Plants and Perennials" was the subject of a talk by Brian O. Mulligan, director of the University of Washington Arboretum. He cited some experiences there with a variety of plants and mentioned the fact that all plants have an optimum temperature where they are native. In addition, they have a maximum and minimum range of tolerance, which may be considerable or only slight. Some plants are hardy considerably farther north than their native habitat would indicate. Mr. Mulligan mentioned examples of fothergilla, franklinia and choisya. To obtain the greatest hardiness from native plants it is best to obtain seeds from plants grow-

[Concluded on page 60.]

LANDSCAPED OFFICE.

Alfred N. Cook, president of the Little Tree Nursery Farm, Roanoke, Va., has discovered that it is good business to maintain an attractively designed and landscaped office building. In line with this principle, his office resembles a small cottage, having small-paned windows, two brick chimneys and a roofed-over entryway with wrought-iron railings on each side. A well proportioned foundation planting and a brick walk, which leads up to and around the building, complete the picture.

The building is constructed of 6-inch cinder blocks, painted white. Its dimensions are 24x32 feet. Inside, the floor is cement covered with asphalt tile. The ceiling is eight feet four and one-half inches high, with a roof pitch of six feet. There are fireplaces in each of the chimneys, and there are three rest rooms in the building, which is graded at ground level.

Mr. Cook is owner and operator of the nursery, which comprises twenty-seven acres of nursery stock and eighty acres of farm land. He uses a D6 Caterpillar Angle Dozer and a D4 Angle Dozer and says that he does not know how he could operate without them. "I think these two tractors have meant more to my nursery and business than any other \$15,000 I have ever invested in my life," he said. Mr. Cook has been operating his nursery for thirteen years and uses modern equipment throughout.



Office Building of Virginia Retail Nursery.

Plant Notes Here and There

By C. W. Wood

A beginner in the culture of alpine plants wonders, after outlining his schedule, what was wrong with his treatment of *Campanula allioni*. I disliked to tell him that about everything was wrong and that it would take too long to relate my experience with the plant in a personal letter. And I told him to look for a report in an issue of the *American Nurseryman* early in 1950; so I am fulfilling the promise now.

Let me say at the outset that this is a plant for the specialist, demanding careful treatment at every stage of its culture. In the first place, its carrot-like roots resent disturbance as does nothing else of its kind that I recall; even the fleshy stolons which radiate from an old specimen and look as though they would afford a ready means of increase frown and sulk, usually refusing to be comforted, after being detached from the parent.

Farrer called *C. allioni* "the type of the most difficult campanulas of the most beautiful alpine group" and later referred to it as "usually, and probably rightly, taken as a type of the irreconcilable lime-haters." Taking my cue from his and others' recommendations for its culture, I struggled for a long time with soil mixtures, stressing absence of lime in the composts and never really succeeding with the plant until I forgot all about alkalinity and acidity and commenced to grow it in almost pure gravel with just a dash of leaf mold to give it a little nourishment. Later experiments showed that better success follows from growing it in pure gravel than in a richer mixture.

Give it, then, a meager soil, root moisture and shade during the heat of summer days, and *C. allioni* should be as permanent as "a limited, dying species, weak in reproduction and incapable of any great spread" can well be. All of this may sound discouraging, and it is meant to be, for *C. allioni* is not a plant for general distribution; rather, it is for the careful grower who is able to take care of such treasures and has clients who are as painstaking as the nurseryman.

Its height of three or four inches, not six or eight inches, as one sees it described in amateurs' journals at times, and its great, nodding bells, an inch and a half wide, one to a stem, are worth working for. Another lovely feature of the plant that is seldom mentioned in literature is

its rosettes of long narrow leaves, silvery with stiff hairs. Although the flower is almost invariably described as purple or white, rarely the latter, the color range also includes what I call lilac and some shades which closely approach pink.

While we are on the subject, it might be well to devote a little space to two or three others of the *allioni* group, all with calyx appendages, which readily distinguish them from the dwarf campanulas usually grown in gardens. One might easily come to the conclusion after reading a systematic treatment of campanula that *C. barbata* is closely related to the plant discussed in the preceding paragraphs, but, judged from the gardeners' standpoint, they are far apart. In the first place, *C. barbata* sends stems to a height of ten inches or a foot, each of them carrying a string of pale blue bells, except in the rare variety, *uniflora*, which has one flower to a stem and thereby misses much of the glory of the type.

Although the bells are smaller than those of *allioni*, they are far more numerous, and the conspicuous fringe of hairs at the mouth (hence the name *barbata*) gives them distinctive beauty.

Then, too, *barbata* has been far easier to grow in our experiments here in northern Michigan, thriving in almost any well drained soil that is not too dry. It takes a little shade from the hot sun in this climate and resents winter dampness. It is a most beautiful alpine, and its variety *alba* is even more so, though truth compels me to say that it was, contrary to books that tell us it is a true perennial, short-lived in our experiments, often dying after the first profuse blooming period. It has been my experience, in fact, that most bell-flowers with their flowers arranged in what gardeners call a spike are more or less monocarpic. That has been true of the beautiful little mountaineer, *C. alpina*, which is often

[Continued on page 18.]

The Old Hand at the New Stand Now Has a Fine Lot of Nursery Stock
For His Fellow Nurserymen

AZALEAS

Limited quantity yet unsold; see classified ad.
Satisfied customers in 14 states. Book your order now and avoid disappointment.

ORNAMENTALS

A nice line of **Broad-leaved Evergreens**, including *Ilex*, *Ligustrum*, *Osmanthus*; **Shrubs**, **Conifers**, **Flowering** and **Shade Trees**.
Grown right, priced right. Convenient trucking distance to New York and other eastern points.

Send for wholesale list.

Grown on the famous Eastern Shore of Virginia.

TANKARD NURSERIES

EXMORE, VIRGINIA

Sam Tankard, Jr.

John Ed. Tankard

EUONYMUS RADICANS VEGETUS FOR LINING-OUT

1-yr., 2 1/2-in. pot plants, 6 to 8 ins., tops.

Ready for shipment now or in the spring.

\$17.50 per 100

\$150.00 per 1000

F.O.B. Fairport, N. Y.

JAMES I. GEORGE & SON

FAIRPORT, N. Y.

CHOICE LINERS FOR SPRING, 1950

EVERGREEN LINING-OUT STOCK

	100 rate each	1000 rate each		100 rate each	1000 rate each
10,000 <i>Abies balsamea</i> , 2-yr. S.....	\$0.06	\$0.05	700 <i>Taxus baccata fastigiata</i> , 3-yr. T, 6 to 16 ins.....	\$0.30	\$0.25
1000 <i>Abies balsamea</i> , T, 3 to 4 ins.....	.06		200 <i>Taxus baccata fastigiata</i> , TT, 9 to 12 ins..	.40	
500 <i>Azalea amoena</i> , 1-yr. T, 6 to 9 ins.....	.20	.18	200 <i>Taxus baccata fastigiata</i> , TT, 12 to 15 ins.....	.50	
500 <i>Azalea hinodagiri</i> , 1-yr. T, 6 to 9 ins.....	.20	.18	200 <i>Taxus baccata fastigiata</i> , 15 to 18 ins.....	.75	
800 <i>Cedrus atlantica glauca</i> , pot grafts.....	.60		150 <i>Taxus canadensis stricta</i> , 2-yr. T.....	.30	
500 <i>Chamaecyparis obtusa gracilis</i> , pot grafts	.35		50 <i>Taxus canadensis stricta</i> , TT, 10 to 12 ins..	.50	
1000 <i>Chamaecyparis obtusa gracilis</i> , 2-yr. grafts.....	.60	.50	40 <i>Taxus canadensis stricta</i> , TT, 12 to 15 ins..	.60	
250 <i>Chamaecyparis plumosa</i> , 4-yr. T, 12 to 16 ins.....	.30		1500 <i>Taxus capitata</i> (new hedgerow type), 2-yr. T, 8 to 15 ins.....	.35	.30
850 <i>Chamaecyparis plumosa</i> , TT, 12 to 15 ins..	.35	.30	6000 <i>Taxus capitata columnaris</i> (Parson's pyramidalis), 2-yr. T, 6 to 10 ins.....	.30	.25
500 <i>Chamaecyparis plumosa aurea</i> , 2-yr. T..	.25	.20	5000 <i>Taxus cuspidata</i> (upright seedlings), 1-yr. S.....	.06	.05
500 <i>Chamaecyparis plumosa aurea</i> , TT, 10 to 12 ins.....	.40	.35	5000 <i>Taxus cuspidata</i> (upright seedlings), 2-yr. S.....	.12	.09½
1000 <i>Euonymus radicans</i> , 2-yr. T, 6 to 9 ins..	.30	.25	2000 <i>Taxus cuspidata</i> , 2-yr. T, 6 to 10 ins..	.30	.25
3000 <i>Euonymus radicans carrierei</i> , 2-yr. T, 9 to 12 ins.....	.30	.25	3000 <i>Taxus cuspidata</i> , 3-yr. T, 8 to 10 ins.....	.35	.30
2000 <i>Euonymus radicans coloratus</i> , T, 10 to 12 ins.....	.25	.20	2000 <i>Taxus cuspidata</i> , 4-yr. TT, 8 to 12 ins..	.45	.40
2000 <i>Euonymus radicans coloratus</i> , TT, 10 to 12 ins.....	.35	.30	300 <i>Taxus cuspidata</i> (No. 2, semilupright), 3-yr. T, 8 to 15 ins.....	.30	
1000 <i>Euonymus radicans erectus</i> , 2½-in. pots.	.15	.15	400 <i>Taxus cuspidata</i> (No. 3, semilupright), 3-yr. T, 6 to 10 ins.....	.30	
500 <i>Euonymus radicans variegated</i> , T, 8 to 10 ins.....	.20		2000 <i>Taxus cuspidata andersoni</i> , 2-yr. T, 6 to 10 ins.....	.30	.25
5000 <i>Euonymus radicans vegetus</i> , R.C. from flats.....	.10	.09	5000 <i>Taxus cuspidata browni</i> , 2-yr. T, 8 to 12 ins.....	.30	.25
5000 <i>Euonymus radicans vegetus</i> , T, 6 to 10 ins.....	.35	.30	1000 <i>Taxus cuspidata browni</i> , TT, 8 to 10 ins..	.35	.30
1000 <i>Hex crenata</i> , 1-yr. T.....	.18		1000 <i>Taxus cuspidata buffoni</i> , 2-yr. T.....	.30	.25
1000 <i>Juniperus chinensis sargentii</i> , 2-yr. T.....	.35	.30	1000 <i>Taxus cuspidata buffoni</i> , 4-yr. TT.....	.45	.40
500 <i>Juniperus depressa plumosa</i> , T, 6 to 8 ins..	.35	.30	1000 <i>Taxus cusp. capitata</i> (cuttings), 2-yr. T, 6 to 10 ins.....	.35	.30
1000 <i>Juniperus excelsa stricta</i> , 2½-in. pots....	.17½		600 <i>Taxus cuspidata columnaris</i> , 3-yr. T, 8 to 16 ins.....	.35	.30
1000 <i>Juniperus glauca hetzi</i> , 2½-in. pots....	.20		200 <i>Taxus cuspidata columnaris</i> , TT, 9 to 12 ins.....	.45	
1000 <i>Juniperus horizontalis douglasii</i> , 2½-in. pots.....	.17½		400 <i>Taxus cuspidata columnaris</i> , TT, 12 to 15 ins.....	.60	.50
1500 <i>Juniperus pfitzeriana</i> , 2½-in. pots, 4 to 6 ins.....	.22½		400 <i>Taxus cuspidata columnaris</i> , TT, 15 to 18 ins.....	.75	.70
1000 <i>Juniperus pfitzeriana</i> , 2½-in. pots, 6 to 8 ins.....	.30		1000 <i>Taxus cuspidata compacta</i> , 2-yr. T, 6 to 10 ins.....	.30	.25
2000 <i>Juniperus saccata</i> , 2-yr. T, 6 to 8 ins..	.20	.18	1000 <i>Taxus cuspidata nana</i> , 2-yr. T, 6 to 8 ins..	.25	.20
10,000 <i>Juniperus virginiana</i> , 2-yr. S, 7 to 14 ins..	.06	.05	3000 <i>Taxus cuspidata nana</i> , 3-yr. T, 5 to 10 ins.....	.30	.25
2700 <i>Juniperus virginiana</i> , 3-yr. T, 8 to 12 ins..	.12	.12	2000 <i>Taxus cuspidata nana</i> , TT, 6 to 10 ins..	.45	.40
6000 <i>Juniperus virginiana</i> (for grafting), 3-yr. T, 6 to 8 ins.....	.10	.10	1000 <i>Taxus cuspidata nana</i> , 5-yr. TT, 8 to 10 ins.....	.65	.60
5000 <i>Juniperus virginiana</i> , 3-yr. T, 4 to 6 ins..	.08	.08	3000 <i>Taxus cuspidata nana</i> , 6-yr. TT, 10 to 12 ins.....	.85	.75
2000 <i>Juniperus virginiana</i> , named varieties, pot grafts.....	.45	.40	5000 <i>Taxus cuspidata nana erecta</i> , 2-yr. T... 1000 <i>Taxus cuspidata thayerae</i> , 2-yr. T.....	.30	.25
2000 <i>Mahonia aquifolium</i> , T, 6 to 10 ins.....	.25	.22	50 <i>Taxus cuspidata thayerae</i> , TT, 12 to 15 ins.....	.60	
1000 <i>Mahonia aquifolium</i> , 1-yr. S.....	.06	.05	4000 <i>Taxus intermedia</i> (spreading), 2-yr. T, 8 to 10 ins.....	.30	.25
8000 <i>Picea albertiana</i> , 2-yr. S, 1½ to 3-in....	.07	.06	600 <i>Taxus intermedia</i> (spreading), 3-yr. T, 8 to 10 ins.....	.35	.30
10,000 <i>Picea canadensis densata</i> , 3-yr. S, 2 to 5 ins.....	.07	.06	1000 <i>Taxus intermedia</i> (spreading), 5-yr. TT, 8 to 10 ins.....	.50	.45
30,000 <i>Picea excelsa</i> , 2-yr. S, 3 to 6 ins.....	.04	.03½	500 <i>Taxus intermedia</i> (spreading), 2-yr. TT, 10 to 12 ins.....	.75	.70
4000 <i>Picea excelsa</i> , 3-yr. S, 3 to 6 ins.....	.06	.05	2500 <i>Taxus intermedia bunnelliana</i> , 2-yr. T, 6 to 10 ins.....	.30	.25
10,000 <i>Picea excelsa</i> , 3-yr. T, 3 to 6 ins.....	.10	.09	2000 <i>Taxus media</i> (upright strain), 2-yr. T, 9 to 12 ins.....	.30	.25
5000 <i>Picea excelsa</i> , 1-yr. S.....	.03	.02½	1000 <i>Taxus media</i> (upright), 3-yr. T, 12 to 15 ins.....	.30	.25
25,000 <i>Picea pungens</i> , 2-yr. S, 2 to 5 ins.....	.07	.06	4000 <i>Taxus media Halloran Strain</i> , 2-yr. T, 6 to 8 ins.....	.25	.22½
5000 <i>Picea pungens</i> , 3-yr. T, 1½ to 4 ins.....	.12	.10	2000 <i>Taxus media Halloran Strain</i> , 3-yr. T, 9 to 12 ins.....	.35	.30
1500 <i>Picea pungens</i> , 3-yr. S, 3 to 6 ins.....	.07	.06	3000 <i>Taxus media Halloran Strain</i> , TT, 9 to 12 ins.....	.60	.50
1000 <i>Picea pungens moerhousii</i> , pot grafts....	1.00		3000 <i>Taxus media hatfieldi</i> , 2-yr. T, 8 to 12 ins.....	.30	.25
1000 <i>Pieris japonica</i> , 3-yr. T.....	.40	.35	2000 <i>Taxus media hatfieldi</i> , 3-yr. T, 8 to 12 ins.....	.35	.30
4000 <i>Pinus banksiana</i> , 2-yr. S, 8 to 14 ins.....	.03	.02½	3000 <i>Taxus media hatfieldi</i> , 4-yr. TT, 10 to 12 ins.....	.40	.35
2000 <i>Pinus densiflora</i> , 3-yr. S, 9 to 18 ins.....	.05	.04	300 <i>Taxus media hatfieldi</i> , 6-yr. TT, 15 to 18 ins.....	.85	.75
6000 <i>Pinus densiflora</i> , 3-yr. T, 4 to 9 ins.....	.10	.09	10,000 <i>Taxus media hicksii</i> , 2-yr. T, 10 to 12 ins..	.25	.20
2000 <i>Pinus nigra austriaca</i> , 2-yr. S, 4 to 6 ins..	.06	.05	2000 <i>Taxus media hicksii</i> , 3-yr. T, 12 to 15 ins..	.30	.25
20,000 <i>Pinus montana mughus</i> , 2-yr. S, 2 to 4 ins.....	.05	.04	1000 <i>Taxus media hicksii</i> , 4-yr. TT, 10 to 12 ins.....	.40	.35
8000 <i>Pinus montana mughus</i> , 3-yr. S, 3 to 5 ins.....	.08	.07	500 <i>Taxus media hicksii</i> , 6-yr. TT, 15 to 18 ins.....	.80	.75
8000 <i>Pinus montana mughus</i> , 3-yr. T, 3 to 6 ins.....	.10	.09			
4000 <i>Pinus resinosa</i> , 3-yr. T, 2 to 5 ins.....	.09	.08			
8000 <i>Pinus resinosa</i> , 3-yr. S, 5 to 10 ins.....	.08	.07			
7000 <i>Pinus rigida</i> , 2-yr. S, 7 to 12 ins.....	.03	.02			
2000 <i>Pinus rigida</i> , 3-yr. S, 8 to 16 ins.....	.04	.03			
25,000 <i>Pinus strobus</i> , 3-yr. T, 3 to 5 ins.....	.08	.07			
5000 <i>Pinus sylvestris</i> , 2-yr. S, 3 to 7 ins.....	.05	.04			
4000 <i>Pinus sylvestris</i> , 3-yr. T, 4 to 9 ins.....	.09	.07			
4500 <i>Pinus sylvestris</i> , 4-yr. T, 9 to 18 ins.....	.12	.10			
5000 <i>Pinus thunbergii</i> , 1-yr. S.....	.03	.02½			
1000 <i>Pseudotsuga douglasii</i> , 3-yr. S, 4 to 6 ins..	.07	.06			
5000 <i>Pseudotsuga douglasii</i> , 3-yr. T, 2 to 6 ins..	.10	.09			
1000 <i>Rhododendron Hybrids</i> (50 per cent red shades), pot grafts....	.75				
500 <i>Rhododendron</i> , named varieties (red), pot grafts.....	.90				

EVERGREEN LINING-OUT STOCK—Continued

	100 rate each	1000 rate each
1000 <i>Taxus media</i> Moon's Columnaris, 2-yr. T, 8 to 10 ins.....	\$0.30	\$0.25
1000 <i>Taxus media</i> Moon's Columnaris, 3-yr. T, 9 to 12 ins.....	.35	.30
2000 <i>Taxus media</i> stovekeni (new), (Fine pyramidal media type), 2-yr. T.....	.40	.35
500 <i>Taxus Vermeulen</i> , 2-yr. T, 6 to 10 ins.....	.30	..
5000 <i>Thuja occidentalis</i> , 2-yr. S.....	.04	.03½
300 <i>Thuja occ. compacta</i> , 3-yr. T, 10 to 15 ins.....	.35	.30
800 <i>Thuja occ. compacta</i> , TT, 8 to 10 ins.....	.40	.35
1500 <i>Thuja occ. Columbia</i> (silver-tipped), T, 8 to 10 ins.....	.25	.20
1000 <i>Thuja occ. Columbia</i> (silver-tipped), TT, 8 to 12 ins.....	.30	.25
200 <i>Thuja occ. douglasii</i> (spiralis), 2-yr. T, 6 to 10 ins.....	.30	.25
240 <i>Thuja occ. spiralis</i> , 10 to 12 ins., TT.....	.45	.40
1000 <i>Thuja occ. pyramidalis</i> , pot grafts.....	.35	..
2000 <i>Thuja occ. pyramidalis</i> , 2¼-in. pots, 9 to 12 ins.....	.25	.25
500 <i>Thuja occ. pyramidalis</i> , pot grafts.....	.35	..
1500 <i>Thuja occ. pyramidalis</i> (transplanted grafts), 15 to 18 ins.....	.70	.60

	100 rate each	1000 rate each
1000 <i>Thuja occ. umbraculifera</i> , 2-yr. T, 6 to 8 ins.....	\$0.20	..
1000 <i>Thuja occ. umbraculifera</i> , TT, 8 to 10 ins.....	.30	\$0.25
350 <i>Thuja occ. vernaenana</i> , 2-yr. T, 8 to 10 ins.....	.30	.25
1000 <i>Thuja occ. wareana</i> , 2-yr. T, 6 to 8 ins.....	.30	.25
600 <i>Thuja occ. wareana</i> , TT, 8 to 12 ins.....	.35	.30
500 <i>Thuja occ. wareana</i> , 2-yr. (transplanted grafts).....	.60	..
1500 <i>Thuja occ. woodwardi</i> , 2-yr. T, 6 to 10 ins.....	.25	.20
3000 <i>Thuja orientalis</i> , 1-yr. S.....	.03	.02½
3000 <i>Thuja orientalis</i> , 2-yr. S, 6 to 10 ins.....	.04	.03½
2000 <i>Thuja orientalis</i> , 3-yr. S, 12 to 18 ins.....	.06	.05
500 <i>Thuja orientalis</i> , 4-yr. T, 12 to 20 ins.....	.08	.07
1000 <i>Thuja orientalis aurea nana</i> , 2-yr. tr. grafts.....	.60	.50
1000 <i>Thuja plicata</i> , 2-yr. S, 6 to 8 ins.....	.05	.04
5000 <i>Tsuga canadensis</i> (light), 2-yr. T, 6 to 10 ins.....	.25	.20
*2000 <i>Tsuga canadensis</i> , 4-yr. TT, 10 to 12 ins.....	.35	.30
*1700 <i>Tsuga canadensis</i> , 4-yr. TT, 12 to 18 ins.....	.45	.40
1000 <i>Tsuga canadensis</i> , 4-yr. TT, 18 to 24 ins.....	.65	.60
200 <i>Tsuga sargentii pendula</i> , pot grafts.....	.75	..

(*) F.O.B. Indiana shipping point.

DECIDUOUS LINING-OUT STOCK

	100 rate each	1000 rate each
1000 <i>Acer dasycarpum</i> , 1-yr. S, 8 to 12 ins.....	\$0.08	\$0.06
750 <i>Acer ginnala</i> , 2-yr. S, 8 to 12 ins.....	.08	.06½
3000 <i>Acer palmatum</i> , 1-yr. S, 6 to 8 ins.....	.08	.07
500 <i>Acer palmatum atropurpureum</i> , pot grafts (seed-grown), T, 9 to 12 ins.....	.75	..
500 <i>Acer palmatum atropurpureum</i> (seed-grown), T, 9 to 12 ins.....	.80	..
2000 <i>Ampelopsis velthei</i> , 1-yr. S, No. 1.....	.04	.03½
5000 <i>Ampelopsis velthei</i> , 1-yr. S, No. 2.....	.03	.02
1000 <i>Ampelopsis velthei</i> , 2-yr. T.....	.25	.20
1500 <i>Althaea</i> , 1-yr. S.....	.04	.03
1000 <i>Azalea arnoldiana</i> , 1-yr. T, 6 to 9 ins.....	.18	.18
2000 <i>Azalea kaempferi</i> , 1-yr. T, 6 to 9 ins.....	.18	.18
1000 <i>Azalea poukhanensis</i> , 1-yr. T, 6 to 9 ins.....	.18	.18
5000 <i>Berberis thunbergii</i> , 1-yr. S.....	.01½	.01½
5000 <i>Berberis thunbergii</i> , 2-yr. T, 9 to 12 ins.....	.07½	.06½
5000 <i>Berberis thun. atropurpurea</i> , 1-yr. S.....	.04	.02½
5000 <i>Berberis thun. atropurpurea</i> , 2-yr. T, 9 to 12 ins.....	.10	.09
500 <i>Celastrus orbiculatus</i> , 1-yr. S.....	.05	.04½
2000 <i>Celastrus scandens</i> , 1-yr. S, 4 to 6 ins.....	.05	.04½
1000 <i>Cornus alba sibirica</i> , 2-yr. T, 6 to 10 ins.....	.07½	.06
5000 <i>Cornus florida</i> (selected understocks), 12 to 18 ins.....	.06	.05
1000 <i>Cornus florida rubra</i> , pot grafts.....	.40	.37½
1000 <i>Cornus florida rubra</i> , 2-yr. T, grafts.....	1.25	1.00
5000 <i>Cornus kousa</i> , 1-yr. S.....	.05	.04½
2000 <i>Cornus mascula</i> , 1-yr. S, 6 to 10 ins.....	.05	.04
1000 <i>Cornus sanguinea</i> , 1-yr. S, 6 to 8 ins.....	.05	.04½
1000 <i>Cornus stolonifera</i> , 2-yr. S, 6 to 10 ins.....	.07½	.06
1000 <i>Cornus stolonifera lutea</i> , 2-yr. T, 6 to 10 ins.....	.07½	.06
500 <i>Cotoneaster acutifolia</i> , 1-yr. S, 2 to 4 ins.....	.10	.09
1000 <i>Cotoneaster horizontalis</i> , 2¼-in. pots.....	.20	.18
5000 <i>Cydonia japonica</i> , 1-yr. S.....	.05	.04
2000 <i>Cydonia japonica</i> (upright), 1-yr. S, 6 to 10 ins.....	.09	.07½
1000 <i>Cydonia japonica</i> , 2-yr. T.....	.12	.09½
2000 <i>Elaeagnus angustifolia</i> , 1-yr. S, 8 to 12 ins.....	.06	.05
500 <i>Enkianthus campanulatus</i> , 1-yr. T.....	.18	..
2000 <i>Euonymus vegetus</i> , rooted cuttings.....	.10	.09
500 <i>Fagus sylvatica purpurea</i> , 1-yr. S.....	.15	..
500 <i>Forsythia fortunei</i> , 2-yr. C, 12 to 15 ins.....	.12	.10
1000 <i>Forsythia spectabilis</i> , 1-yr. C.....	.06	.05
1000 <i>Hydrangea P.G.</i> , 2-yr. C, 6 to 8 ins.....	.15	.12½
5000 <i>Koeleruteria paniculata</i> , 1-yr. S, 12 to 15 ins.....	.08	.05
2000 <i>Kolkwitzia amabilis</i> , 1-yr. T, 6 to 12 ins.....	.11	.10
2000 <i>Kolkwitzia amabilis</i> , 2-yr. T, 12 to 18 ins.....	.20	.18
1000 <i>Laburnum vulgare</i> , 1-yr. S.....	.08	.07½
250 <i>Laburnum vulgare</i> , 2-yr. T.....	.12	..
2000 <i>Ligustrum ibota</i> , 2-yr. S, 6 to 12 ins.....	.07½	.06½
2000 <i>Lonicera bella albidia</i> , 1-yr. C, 8 to 12 ins.....	.05	.05

	100 rate each	1000 rate each
800 <i>Lonicera grandiflora rosea</i> , 1-yr. C, 8 to 12 ins.....	\$0.06	\$0.05
500 <i>Magnolia soulangeana</i> , pot grafts.....	.60	..
500 <i>Magnolia soulangeana</i> , 1-yr. T, 12 to 18 ins.....	1.00	..
200 <i>Magnolia stellata</i> , pot grafts.....	.60	..
500 <i>Malus</i> , assorted varieties, 1-yr. T, 18 to 24 ins.....	.25	..
300 <i>Malus</i> , assorted varieties, 2-yr. T, 2 to 3 ft.....	.35	..
375 <i>Philadelphus Albatus</i> , 1-yr. C.....	.06	..
3000 <i>Philadelphus coronarius aureus</i> , 2¼-in. pots.....	.15	.12½
325 <i>Philadelphus Glacier</i> , 1-yr. C.....	.06	..
200 <i>Philadelphus virginialis</i> , 1-yr. T, 12 to 18 ins.....	.18	..
400 <i>Philadelphus virginialis</i> , 1-yr. T, 18 to 24 ins.....	.20	.17½
400 <i>Philadelphus virginialis</i> , 1-yr. T, 2 to 2½ ft.....	.25	.20
2000 <i>Prunus americana</i> , 1-yr. S, 12 to 18 ins.....	.05	.04
1500 <i>Rhamnus cathartica</i> , 1-yr. S, 6 to 8 ins.....	.05	.04
2000 <i>Rosa rubrifolia</i> , 2-yr. T, 6 to 10 ins.....	.08	.06
4000 <i>Rosa rugosa</i> , 1-yr. S, 2 to 4 ins.....	.05	.04
1500 <i>Rosa rugosa</i> , 2-yr. T, 10 to 12 ins.....	.08	.07½
2000 <i>Rosa rugosa alba</i> , 1-yr. S, 2 to 4 ins.....	.10	.09
2000 <i>Rosa setigera</i> , 1-yr. S, 6 to 10 ins.....	.06	.04
500 <i>Salix blanda</i> , 1-yr. S, 3 to 4 ft.....	.06	.07½
500 <i>Sophora japonica</i> , 1-yr. S.....	.10	.09
2000 <i>Sorbus aucuparia</i> , 1-yr. S.....	.06	.05
400 <i>Spiraea Anthony Waterer</i> , 2-yr. C, 6 to 8 ins.....	.15	.12½
700 <i>Spiraea arguta</i> , 2-yr. C, 8 to 10 ins.....	.15	.12½
400 <i>Spiraea callosa alba</i> , 2-yr. C, 3 to 5 ins.....	.12	.10
3000 <i>Syringa pekinensis</i> , 1-yr. S, 2 to 4 ins.....	.06	.05
500 <i>Syringa</i> , named hybrids, 1-yr. grafts.....	.25	..
200 <i>Syringa</i> , named hybrids, 2-yr. grafts.....	.35	..
1000 <i>Tamarix africana</i> , 1-yr. S.....	.06	.05
3000 <i>Viburnum americanum</i> , 2-yr. S, 10 to 14 ins.....	.10	.08
500 <i>Viburnum burkwoodi</i> , pot grafts.....	.40	..
2000 <i>Viburnum burkwoodi</i> , 2¼-in. pots.....	.30	.25
1000 <i>Viburnum carlesii</i> , pot grafts.....	.40	..
3000 <i>Viburnum dilatatum</i> , 1-yr. S.....	.06	.05
1000 <i>Viburnum lentago</i> , 2-yr. S, 4 to 8 ins.....	.10	.08
1500 <i>Viburnum pubescens</i> , 2-yr. T, 6 to 10 ins.....	.12	.10
3000 <i>Viburnum scheidtii</i> , 1-yr. S, 4 to 6 ins.....	.06	.05
3000 <i>Weigela Bristol Ruby</i> (patented), R.C. or 2¼-in. pots.....	.25	.22½
2000 <i>Weigela rosea</i> , 1-yr. C.....	.08	..
500 <i>Wistaria sinensis</i> , 1-yr. purple, grafts.....	.20	..
5000 <i>Vaccinium</i> (Hybrid Blueberries), rooted cuttings.....	.15	.10

Varieties: Concord, Rubel, Pioneer, Rancocas, Jersey, Stanley, at above prices. These varieties 10¢ each higher: Weymouth, Atlantic, Pemberton, Dixie.

Please note—All pot grafts will be ready for shipment early May, 1950, at proper time.

All the above is grown by our best growers of lining-out material. All F.O.B. shipping points, packing additional at cost. Usual terms to trade accounts. The above is listed subject to prior sale and subject to usual trade terms as mentioned in our trade lists.

E. D. ROBINSON SALES AGENCY

38 South Elm St.

"A friendly, efficient service"

Wallingford, Conn.

LINING-OUT STOCK—SPRING, 1950

1,000,000 Transplanted Liners, well grown, hardy stock.

Heavy liners from field beds of 1, 2 and 3-year plantings. X indicates times transplanted. 25 of a kind at 100 rate; 300 of a kind at 1000 rate. Shipped express or parcel post. Terms: Cash with order and packing free; otherwise 1/3 deposit, balance C.O.D., and packing charged at cost. Japanese beetle certification provided upon request. Write for our latest listing of nursery stock. Ready now.

	100 rate each	1000 rate each
<i>Althaea</i> (<i>Hibiscus</i> <i>Syracus</i>), Rose of Sharon, 5 to 10 ins., sdig., 1-yr.	\$0.03	\$0.02
<i>Althaea</i> (<i>Hibiscus</i> <i>Syracus</i>), Rose of Sharon, 10 to 20 ins., sdig., 2-yr.	.05	.03
<i>Azalea</i> Ghent, 6 to 9 ins., XXX, 3-yr.	.45	..
<i>Azalea</i> Ghent, 9 to 12 ins., XXX, 3-yr.	.65	..
<i>Azalea</i> mollis, 2 to 5 ins., X, 1-yr.	.15	.12
<i>Azalea</i> mollis, 5 to 10 ins., X, 2-yr.	.25	.22
<i>Azalea</i> mollis, 6 to 9 ins., XX, 3-yr.	.45	.40
<i>Azalea</i> mollis, 9 to 12 ins., XX, 3-yr. branched	.65	.55
<i>Azalea</i> mollis, 12 to 15 ins., XX, 4-yr. branched (B&B add 25c)	1.00	..
<i>Azalea</i> mollis, 15 to 18 ins., XXX, 4-yr. branched (B&B add 25c)	1.25	..
<i>Azalea</i> kaempferi hyb., 4 to 6 ins., XX, 2-yr.	.25	..
<i>Azalea</i> kaempferi hyb., 6 to 9 ins., XX, 3-yr.	.35	..
<i>Azalea</i> kaempferi hyb., 9 to 12 ins., XX, 3-yr.	.45	..
<i>Berberis</i> thun. atropurpurea, 8 to 12 ins., X, 2-yr.	.17	..
<i>Buxus</i> sempervirens, 4 to 8 ins., XX, 2-yr.	.18	..
<i>Buxus</i> welleri, 2 to 5 ins., X, 1-yr.	.18	..
<i>Buxus</i> welleri, 4 to 8 ins., 2-yr.	.25	..
<i>Calyculanthus</i> floridus, 4 to 10 ins., sdig.	.05	.04
<i>Chamaecyparis</i> lawsoniana, 8 to 12 ins., sdig., 2-yr.	.25	.08
<i>Chamaecyparis</i> laws. allumi, X, 6 to 10 ins., 1-yr.	.15	.13
<i>Chamaecyparis</i> laws. allumi, X, 10 to 15 ins., 2-yr.	.20	.18
<i>Chamaecyparis</i> filifera aurea, 4 to 8 ins., X, 1-yr.	.15	.12
<i>Chamaecyparis</i> filifera aurea, 6 to 10 ins., XX, 2-yr.	.22	..
<i>Chamaecyparis</i> filifera aurea, 8 to 10 ins., X, 1-yr.	.15	.12
<i>Cytisus</i> purpureus, Scotch Broom, X, 2-yr.	.15	.12
<i>Elaeagnus</i> angustifolia, sdig., 1-yr.	.05	..
<i>Euonymus</i> carrierei, 4 to 8 ins., X, 1-yr.	.10	.08
<i>Euonymus</i> carrierei, 6 to 10 ins., XX, 2-yr.	.15	.12
<i>Euonymus</i> carrierei, 9 to 12 ins., XXX, 3-yr. cutback	.25	..
<i>Euonymus</i> coloratus, 4 to 8 ins., X, 1-yr.	.10	.08
<i>Euonymus</i> coloratus, 6 to 12 ins., XX, 2-yr.	.18	.16
<i>Euonymus</i> fortunei erectus, 4 to 8 ins., X, 1-yr.	.10	.08
<i>Euonymus</i> fortunei erectus, 8 to 12 ins., XX, 2-yr.	.18	.15
<i>Euonymus</i> patens, 4 to 8 ins., X	.12	..
<i>Euonymus</i> vegetus, 4 to 8 ins., X	.12	..
<i>Hex</i> crenata, 3 to 5 ins., X, 1-yr.	.12	.11
<i>Hex</i> crenata, 4 to 6 ins., XX, 2-yr.	.17	..
<i>Hex</i> crenata, 6 to 9 ins., XX, 2-yr.	.25	..
<i>Hex</i> crenata bullata, Convex Leaf Holly, 4 to 6 ins., X	.18	.16
<i>Hex</i> crenata bullata, Convex Leaf Holly, 6 to 8 ins., XX	.25	..
<i>Hex</i> crenata bullata, Convex Leaf Holly, 8 to 12 ins., XXX, 3-yr.	.45	..
<i>Hex</i> glabra, 4 to 6 ins., X	.18	.16
<i>Hex</i> glabra, 8 to 10 ins., XX, 3-yr.	.30	..
<i>Hex</i> rotundifolia, 3 to 5 ins., X, 1-yr.	.13	.12
<i>Hex</i> rotundifolia, 4 to 6 ins., XX, 2-yr.	.18	.16
<i>Hex</i> rotundifolia, 6 to 8 ins., XX	.24	..
<i>Hex</i> rotundifolia, 8 to 12 ins., XXX, 3-yr.	.60	..
<i>Juniper</i> , Andorra, 6 to 9 ins., X, 1-yr.	.17	.15
<i>Juniper</i> , Andorra, 6 to 9 ins., XX, 2-yr.	.24	.22
<i>Juniper</i> , Irish, 6 to 8 ins., X, 1-yr.	.17	.15
<i>Juniper</i> , Irish, 8 to 12 ins., XX, 2-yr.	.24	.22
<i>Juniperus communis depressa plumosa aurea</i> , 4 to 6 ins., X, 1-yr.	.15	..
<i>Juniperus glauca</i> hetzi, 6 to 8 ins., X, 1-yr.	.17	.15
<i>Juniperus glauca</i> hetzi, 8 to 10 ins., X, 1-yr.	.22	.20
<i>Juniperus glauca</i> hetzi, 8 to 12 ins., XX, 2-yr.	.25	..
<i>Juniperus glauca</i> hetzi, 12 to 15 ins., XXX, 3-yr.	.35	..
<i>Juniperus horizontalis glauca</i> , 6 to 8 ins., X, 1-yr.	.15	..
<i>Juniperus horizontalis glauca</i> , 8 to 12 ins., XX, 2-yr.	.20	.18
<i>Juniperus pfitzeriana Hill's Golden</i> , 5 to 8 ins., X, 1-yr.	.30	..
<i>Juniperus virginiana</i> , 8 to 12 ins., sdig., 2-yr.	.07	.06
<i>Koeleruteria paniculata</i> , Golden Raintree, 4 to 8 ins., sdig., 1-yr.	.10	.08
<i>Larix europaea</i> , 6 to 12 ins., X, 2-yr.	.10	.08
<i>Leucothoe catesbaei</i> , 4 to 6 ins., X, 1-yr.	.15	.13
<i>Leucothoe catesbaei</i> , 6 to 12 ins., XX, 2-yr.	.25	.22
<i>Liquidambar styraciflua</i> , Sweet Gum, 6 to 10 ins., sdig., 1-yr.	.04	.03
<i>Myrica carolinensis</i> , sdig., 1-yr.	.10	..
<i>Picea excelsa</i> , 4 to 8 ins., X, 2-yr.	.15	.12
<i>Pieris floribunda</i> , 6 to 10 ins., XX, 3-yr.	.35	..
<i>Pieris floribunda</i> , 10 to 15 ins., XX, 3-yr.	.50	..
<i>Pieris japonica</i> , Japanese Pieris, 6 to 8 ins., XX, 3-yr.	.45	..
<i>Pieris japonica</i> , Japanese Pieris, 8 to 12 ins., XXX, 3-yr.	.65	..
<i>Pieris japonica</i> , Japanese Pieris, 12 to 15 ins., XXX, 3-yr.	1.00	..
<i>Pieris mariana</i> , 8 to 10 ins., XX, 2-yr.	.65	..
<i>Pieris mariana</i> , 10 to 15 ins., XX, 3-yr.	.90	..
<i>Pinus montana mugo</i> , 2 to 5 ins., sdig., 2-yr.	.05	.04
<i>Quercus palustris</i> , Pin Oak, 4 to 6 ins., sdig., 1-yr.	.08	.06
<i>Quercus palustris</i> , Pin Oak, 6 to 12 ins., sdig., 1-yr.	.12	.10
<i>Rhododendron carolinianum</i> , 8 to 12 ins., XXX, 4-yr.	1.00	..
<i>Rhododendron hybrid</i> , 9 to 12 ins., XXX, 4-yr.	.85	..
<i>Rhododendron hybrid</i> , 12 to 15 ins., XXX, 4-yr.	1.50	..
<i>Rhododendron hybrid</i> , 15 to 18 ins. (B&B add 25c)	2.25	..
<i>Taxus browni</i> , 3 to 6 ins., X, 1-yr.	.14	.12
<i>Taxus browni</i> , 6 to 8 ins., X, 1-yr.	.18	.16
<i>Taxus capitata</i> , 4 to 6 ins., XX, 2-yr.	.18	.15
<i>Taxus capitata</i> , 6 to 8 ins., XX, 2-yr.	.25	..
<i>Taxus capitata</i> , 8 to 12 ins., XX, 3-yr.	.35	..
<i>Taxus cuspidata</i> , 3 to 6 ins., X, 1-yr.	.12	.11
<i>Taxus cuspidata</i> , 6 to 9 ins., X, 1-yr.	.12	..
<i>Taxus cuspidata</i> , 6 to 9 ins., XX, 2-yr.	.20	.18
<i>Taxus cuspidata</i> , 8 to 10 ins., XX, 3-yr.	.28	..
<i>Taxus cuspidata</i> , 10 to 15 ins., XX, 3-yr.	.35	..
<i>Taxus media</i> hatfieldi, 3 to 6 ins., X, 1-yr.	.14	.12
<i>Taxus media</i> hicksii, 3 to 6 ins., X, 1-yr.	.14	.12
<i>Taxus media</i> hicksii, 6 to 8 ins., X, 1-yr.	.18	.16
<i>Thuja occidentalis</i> , 4 to 8 ins., 2-yr.	.08	.06
<i>Thuja ooc. ellwangeriana</i> , 6 to 9 ins., XX, 2-yr.	.15	..
<i>Thuja ooc. elegantissima Geo. Peabody</i> , 4 to 6 ins., X, 1-yr.	.14	.12
<i>Thuja ooc. elegantissima Geo. Peabody</i> , 6 to 9 ins., X, 1-yr.	.18	.16
<i>Thuja ooc. globosa</i> , 6 to 8 ins., XX, 2-yr.	.18	.16
<i>Thuja ooc. globosa</i> , 8 to 10 ins., XX, 2-yr.	.15	.13
<i>Thuja ooc. Hill's Golden</i> , 4 to 6 ins., X, 1-yr.	.18	.16
<i>Thuja ooc. plicata</i> , 6 to 9 ins., XX, 2-yr.	.18	..
<i>Thuja ooc. pyramidalis</i> , 4 to 6 ins., X, 1-yr.	.15	.13
<i>Thuja ooc. pyramidalis</i> , 6 to 8 ins., X, 1-yr.	.20	.18
<i>Thuja orientalis</i> , Oriental Arborvitae, 4 to 8 ins., sdig., 1-yr.	.05	.03
<i>Thuja orientalis</i> , Oriental Arborvitae, 6 to 9 ins., sdig., 2-yr.	.08	.06
<i>Tsuga canadensis</i> , 12 to 15 ins., XXX, 5-yr., (B&B add 20c)	.65	..

PALLACK BROS. NURSERIES, Inc.

(On Highway 19, 31 mi. north of Pittsburgh, Pa.)

R.F.D. 1

Phone: Zellenople 476-J 21

HARMONY, PA.

spoken of as a small version of *barbata*.

Actually, though, *C. alpina* differs from the other in many ways, not the least conspicuous being the absence of a bearded corolla and its smaller stature, the latter seldom exceeding three or four inches. It is a beautiful plant from its tiny dense tufts of hairy gray leaves to its string of blue (blue-purple to some) dangling bells during two months or more, commencing in this climate in May. It is spoken of in the books as being "easy in cultivation," according to the *Cyclopedia of Horticulture*, and "a very good little doer—a lime lover of quite easy cultivation," according to Farrer. In my experience *alpina* seemed in about the same class as *barbata*, except that it always needed more moisture during the growing season.

Rodgersia.

It will take not a little searching to find a single source of supply for a *rodgersia* in this country. And that is all the more surprising when we remember how popular are its close relatives, the *astilbes*. To my knowledge, at least two species, *R. pinnata* and *R. podophylla*, are desirable candidates for a place among the elect, tall-growing border plants in sections where they are hardy. Both grow from three to four feet tall, the first with leaves pinnate in the form of a hand, each leaflet one-half foot or more in length, and branched panicles of small white flowers. The latter has peltately 5-foliate leaves, as much as fifteen inches, and fluffy panicles of whitish flowers, on the order of the forcing *astilbes*.

R. podophylla winterkilled here during a cold winter, but *R. pinnata* went through the same ordeal unscathed. It is not apparent, though, from the literature just how much cold they can stand. It is not unlikely that trial would show that *R. pinnata* at least would be hardy in all except the coldest parts of the country.

The *rodgersias* are said to grow naturally in moist situations, and we found that to be true here. However, they do make quite satisfactory growth in ordinary border soil which has been thoroughly enriched with well rotted manure and peat. The character of the foliage requires some protection from strong winds if it is to remain unblemished throughout the season. Incidentally, the leaves, which assume tints of bronze before summer is gone, are their chief merit. *Rodgersias* are quite easy to propa-

[Continued on page 61.]

JEWELL

Headquarters for Hardy Northern-grown Nursery Stock at **WHOLESALE**

We list below a few items from our Complete List.

FLOWERING SHRUBS

	Per 10	Per 100	Per 1000
Almond, Pink-flowering			
450 12 to 18 ins.	\$2.80	\$25.00	.....
970 18 to 24 ins.	4.00	35.00	.....
200 2 to 3 ft.	5.00	45.00	.....
Barberry, Red-leaved			
900 12 to 15 ins.	2.50	22.00	.....
650 15 to 18 ins.	3.20	28.00	.....
700 18 to 24 ins.	4.00	35.00	.....
Barberry, Green			
2100 15 to 18 ins.	2.40	20.00	\$160.00
2900 18 to 24 ins.	3.00	25.00	200.00
Buddleia Charming			
1800 No. 1	2.80	25.00	200.00
Buddleia Dubonnet			
900 No. 1	2.80	25.00	.....
Buddleia Eleanor			
700 No. 1	2.80	25.00	.....
Buddleia Empire Blue (Plant Patent 557)			
1500 No. 1	4.00	35.00	300.00
Buddleia Ile de France			
600 No. 1	2.80	25.00	.....
Buddleia White Cloud			
800 No. 1	2.80	25.00	.....
Caryopteris Blue Spires			
1000 18 to 24 ins.	2.80	25.00	200.00
Forsythia Fortunei			
350 2 to 3 ft.	3.50	30.00	.....
450 3 to 4 ft.	4.00	35.00	.....
Forsythia Spectabilis			
1300 18 to 24 ins.	2.50	22.00	180.00
500 2 to 3 ft.	3.50	30.00	.....
400 3 to 4 ft.	4.00	35.00	.....
Honeysuckle, Zabeli			
2200 2 to 3 ft.	3.20	28.00	240.00
Lilac, Common Purple			
400 12 to 18 ins.	2.00	18.00	.....
750 18 to 24 ins.	3.00	25.00	.....
Lilac, Persian Purple			
3600 2 to 3 ft.	3.50	30.00	250.00
Lilac, Persian White			
500 2 to 3 ft.	4.00	35.00	.....
Philadelphus Bouquet Blanc			
580 2 to 3 ft.	4.00	35.00	.....
Philadelphus Virginialis			
300 2 to 3 ft.	5.50	50.00	.....
220 3 to 4 ft.	6.50	60.00	.....
Spiraea Arguta			
300 18 to 24 ins.	2.50	22.00	.....
800 2 to 3 ft.	3.50	30.00	.....
Spiraea Froebeli			
2300 12 to 18 ins.	2.00	18.00	160.00
Spiraea Menziesii			
1000 2 to 3 ft.	3.50	30.00	250.00
Spiraea Prunifolia			
500 2 to 4 ft.	4.50	40.00	.....

FLOWERING SHRUBS—Continued

	Per 10	Per 100	Per 1000
Tamarix Hispid			
1000 2 to 3 ft.	\$3.20	\$28.00	\$240.00
1700 3 to 4 ft.	4.00	35.00	300.00
Weigela Bristol Ruby (Plant Patent 492)			
150 2 to 3 ft.	7.00	60.00	.....
350 3 to 4 ft.	9.00	80.00	.....
Weigela Rosea			
600 2 to 3 ft.	3.50	30.00	.....
390 3 to 4 ft.	4.50	40.00	.....

ORNAMENTAL TREES

	Per 10	Per 100	Per 1000
Crab, Hops			
420 2 to 3 ft.	\$ 4.00	\$ 35.00	.....
200 3 to 4 ft.	5.00	45.00	.....
300 4 to 5 ft.	6.50	60.00	.....
Crab, Red Silver			
200 3 to 4 ft.	5.00	45.00	.....
100 4 to 5 ft.	6.50	60.00	.....
Poplar, Lombardy			
2400 6 to 8 ft.	4.00	35.00	\$300.00
1500 8 to 10 ft.	6.00	50.00	450.00
Prunus Newport (Bush form)			
500 3 to 4 ft.	7.00	65.00	.....
Prunus Newport (Tree form)			
960 3 to 4 ft.	7.00	65.00	.....
Prunus Tomentosa			
480 2 to 3 ft.	5.00	45.00	.....
Prunus Triloba			
1250 3 to 4 ft.	8.50	80.00	750.00
100 4 to 5 ft.	10.00	90.00	.....
Willow, Niobe Weeping			
300 5 to 6 ft.	6.00	50.00	.....
400 6 to 8 ft.	9.00	80.00	.....
250 8 to 10 ft.	12.00	100.00	.....
Willow, Wisconsin Weeping			
400 5 to 6 ft.	6.00	50.00	.....

PERENNIALS

	Per 10	Per 100	Per 1000
Bleeding Heart			
1900 2 to 3 eye.	\$2.50	\$20.00	\$175.00
3000 3 to 5 eye.	3.50	30.00	250.00
1400 5 to 8 eye.	4.00	35.00	300.00
Dictamnus, Pink			
1200 2-year	2.00	18.00	160.00
Gypsophila Bristol Fairy			
900 No. 1	4.00	35.00	.....
Lythrum Morden Pink			
7500 No. 1	1.80	15.00	120.00

All the above-quoted stock is in storage and available for immediate delivery.

Our complete list is available covering our complete line for delivery in the spring of 1950.

Write for catalog.

JEWELL NURSERIES, Inc.

BOX 457

LAKE CITY, MINN.

Coming Events

MEETING CALENDAR.

January 15 to 17, Executive Committee, American Association of Nurserymen, Hotel La Salle, Chicago.

January 16, National Landscape Nurserymen's Association, Hotel La Salle, Chicago.

January 16, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago.

January 16, All-America Rose Selections, Inc., Hotel La Salle, Chicago.

January 16 to 18, Idaho Nurserymen's Association, Boise.

January 17 to 19, Illinois State Nurserymen's Association, Hotel La Salle, Chicago.

January 20, Western New York Nurserymen's Association, Hotel Seneca, Rochester.

January 23 and 24, Washington State Nurserymen's Association, Davenport hotel, Spokane.

January 23 to 25, Short Course for Nurserymen, Landscape Gardeners and Arborists, Neil House, Columbus, O.

January 25, New Jersey Association of Nurserymen, Hotel Hildebrecht, Trenton.

January 25 and 26, Pennsylvania Nurserymen's Association, Bellevue Stratford hotel, Philadelphia.

January 25 to 27, Indiana Arborists' Association, Purdue University, West Lafayette.

January 26 and 27, Ohio Nurserymen's Association, Neil House, Columbus.

January 29 to 31, Virginia Nurserymen's Association, Hotel John Marshall, Richmond.

February 1 to 3, Michigan Association of Nurserymen, Fort Shelby hotel, Detroit.

February 1 and 3, Tennessee State Nurserymen's Association, Andrew Johnson hotel, Knoxville, and nurserymen's short course at the University of Tennessee, Knoxville.

February 2, Oregon Association of Nurserymen, Heathman hotel, Portland.

February 6 and 7, Kentucky State Nurserymen's Association, Lafayette hotel, Lexington.

February 7, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston.

February 7 to 9, New England Nurserymen's Association, Hotel Kenmore, Boston.

February 15, Rhode Island Nurserymen's Association, Newport.

February 15 to 19, Midwestern Chapter of National Shade Tree Conference, Hotel La Salle, Chicago.

February 21 to 23, Pennsylvania Nurserymen's Conference, State College, Pa.

February 27 to March 10, Landscape short course, Virginia Polytechnic Institute, Blacksburg.

ILLINOIS SPEAKER.

The program for the convention of the Illinois State Nurserymen's Association, January 17 to 19 at the Hotel La Salle, Chicago, is now complete with the announcement that the speaker for the luncheon January 19 will be Howard Wilson, sales promotion division, Ruthrauff & Ryan, Inc., well known Chicago advertising agency. Mr. Wilson's talk

will be entitled "Action Is Power." The full convention program was published in preceding issues.

KENTUCKY DATES.

The Kentucky State Nurserymen's Association will hold its annual meeting February 6 and 7 at the Lafayette hotel, Lexington, Secretary Howard G. Tilson announces.

WASHINGTON PROGRAM.

At the midwinter meeting of the Washington State Nurserymen's Association, January 23 and 24 at the Davenport hotel, Spokane, several speakers from Washington and Oregon are to discuss various ways of improving the nursery business. C. B. Miller, Milton Nursery Co., Milton, Ore., and Wayne McGill, A. McGill & Son, Fairview, Ore., will discuss some better varieties of shade trees and shrubs. Wayne Melot, Carlton Nursery Co., Forest Grove, Ore., will discuss improved forms of fruit trees and small fruits and Larry Krause, Spokane, will discuss better varieties of evergreens and broad-leaved plants. Other subjects to be treated will be "Better Roses," "Better Publicity" and "Better Merchandising."

Also on the program is Harold Abbott, of the Spokane park board. Mr. Abbott is currently developing

"SPECIALS" FROM OUR NEW LIST

JUNIPER, PFITZER STRICTA

1-yr. liners, TT, bed-grown.

	Per 100
4 to 6 ins., B.R.	\$18.00
6 to 8 ins., B.R.	25.00

KOSTER NURSERY BRIDGETON, N. J.

ORNAMENTAL EVERGREENS

Trees & Shrubs

BAGATELLE NURSERY P. O. Huntington Station, N. Y.

an arboretum at Spokane and will outline progress on this work. O. B. Howell, garden editor of the Spokesman-Review, one of Spokane's newspapers, will give some viewpoints on relationships between newspapers and nurserymen. A. Edward Balzer, nurseryman at Spokane, will discuss the plant patent situation.

Registration is planned for 8 a. m. January 23, and the program will start at 9 o'clock, with President Frank Stanek, Stanek & Son, Spokane, opening the meeting. Part of the first day will be given to a meeting of Washington chapter 28 of the American Association of Nurserymen. The program for the morning of January 24 will be under the direction of Dr. T. W. Merrill, head of the department of horticulture, Washington State College, Pullman. In the afternoon the group will tour the Kaiser aluminum mill at Trentwood.

PENNSYLVANIA PROGRAM.

The annual meeting of the Pennsylvania Nurserymen's Association is being planned for January 25 and 26 at the Bellevue-Stratford hotel, Philadelphia, not for February 2 and 3, as was erroneously stated in preceding issues.

Jesse R. S. Flory, chairman of the

CHOICE ITEMS

	Each	per 100
50 <i>Cotoneaster Apiculata</i> , 15 to 18 ins.		\$1.50
500 <i>Azalea Mollis</i> , named, 12 to 15 ins.	1.75	
30 <i>Ginkgo</i> , 8 to 10 ft.	3.00	
15 <i>Cornus Kousa Chinensis</i> , 3 to 4 ft.	4.00	
15 <i>Cornus Florida Plena</i> , 2 1/2 to 3 ft.	2.50	
400 <i>Cornus Florida</i> , 1-yr. S.	.06	
15 <i>Cornus Florida</i> , 7 to 9 ft.	7.00	
150 <i>Cornus Florida Rubra</i> , 16 to 24 ins.	1.00	
150 <i>Franklinia A.</i> , 10 to 14 ins., T.	.50	
500 <i>Taxus Capitata</i> , 2-yr. S.	.12	
1000 <i>Ilex Convexa</i> , S.		
50c each per 1000		
10 <i>Magnolia Lenzel</i> , 4 to 5 ft.	7.00	
25 <i>Celastrus Scandens</i> , 2 to 3 ft.	.50	
100 <i>Pecony</i> , high-rated, boxed.	1.50	
Other choice items. Cash with order. 50 at 100 rate; 500 at 1000 rate.		

BRIMFIELD GARDENS NURSERY 245 BRIMFIELD RD. WETHERSFIELD, CONN.

THUJA OCCIDENTALIS COMPACTA ERECTA (NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

THE WESTMINSTER NURSERIES WESTMINSTER, MD.

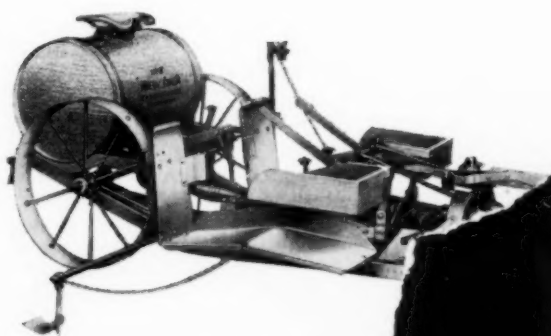
NEW IDEA transplanters



save time and labor — produce better crops

With the NEW IDEA Transplanter, a crew of three easily sets as many plants per day as *sixteen* hand workers. The transplants are evenly spaced at correct depth, with roots properly spread and watered.

The soil is uniformly firmed and mulched around them, the fertilizer correctly placed. Crops set out the NEW IDEA way take hold faster and grow more vigorously—mature earlier and yield better.



Comfortable, safe, convenient. Pulled by either team or tractor. Handles tomatoes, tobacco, cabbage, peppers, sweet potatoes, strawberries and all similar transplantable crops. Fertilizer attachment available. Ask your NEW IDEA dealer about this modern



77 YEARS



2-year budded Pear photographed in our fields Aug. 2, 1949.

The production of fruit trees has been a specialty with Willis since 1872.

Apples and Crab Apples

Two-year Grafts		Per 100	Per 1000
11/16-in. up, 4½ ft. up...		\$45.00	\$400.00
9/16 to 11/16-in., 4 ft. up.		35.00	300.00
7/16 to 9/16-in., 3 ft. up.		28.00	250.00
5/16 to 7/16-in., 2 ft. up.		22.00	200.00
Anoka	McIntosh, Dk. Red		
Beacon	McIntosh, Early		
Delicious, Dk. Red	Red Rome Beauty		
Delicious, Yellow	Red Bird		
Deluxe	Stayman, Dk. Red		
Duchess, Red	Transcendent Crab		
Haralson	Turley		
Hyslop Crab	Wealthy		
John's Crab	Whitney Crab		
Jonathan	Winesap		
Jonathan, Dk. Red	York Imperial		

Peaches

One-year Buds		Per 100	Per 1000
11/16-in. up, 4½ ft. up...		\$50.00	\$400.00
9/16 to 11/16-in., 4 ft. up.		40.00	300.00
7/16 to 9/16-in., 3 ft. up.		25.00	220.00
5/16 to 7/16-in., 2 ft. up.		18.00	150.00
Belle of Georgia			

Apricots

One-year		Per 100	Per 1000
11/16-in. up, 4½ ft. up...		\$80.00	\$750.00
9/16 to 11/16-in., 4 ft. up.		65.00	600.00
7/16 to 9/16-in., 3 ft. up.		50.00	450.00
5/16 to 7/16-in., 2 ft. up.		35.00	300.00

Border Queen

Moorpark

Early Golden

Cherries, Sour

		Per 100	Per 1000
11/16-in. up, 3½ ft. up...		\$85.00	\$800.00
9/16 to 11/16-in., 3 ft. up.		75.00	700.00
7/16 to 9/16-in., 2½ ft. up.		60.00	....
5/16 to 7/16-in., 2 ft. up.		45.00	....

Cherries, Sweet

One-year, Mostly Whips

		Per 10	Per 100
11/16-in. up, 4½ ft. up...		\$12.00	\$110.00
9/16 to 11/16-in., 4 ft. up.		9.50	90.00
7/16 to 9/16-in., 3 ft. up.		7.50	70.00
5/16 to 7/16-in., 2 ft. up.		5.00	50.00
Napoleon			

program committee, announces that the theme of the convention will be changing times, both as they affect the general business picture and the individual nurseryman. Activities will begin at 9 a. m. Wednesday with registration, and from 9:30 to 11:45 a. m. there will be an open forum, led by John Stoudt, Farr Nursery Co., Weiser Park, at which everyone will have the opportunity to express his views on topics of general interest. At the group luncheon the association will hear an address of welcome by Philadelphia's mayor or his representative.

The afternoon session will begin with a general business meeting, after which Curtis Porterfield, administrative assistant, American Association of Nurserymen, will report from Washington, D. C., headquarters. Known for his ability to present the technical subject of economics and marketing to the layman in an understandable manner, Dr. Myron S. Heidingsfield, professor of marketing, Temple University, will discuss "Changing Times in Business." To conclude the session, Dr. Joseph E. Howland, garden editor of House Beautiful magazine, New York, will discuss changing approaches to architecture, entitling his talk "Modern Gardens Are To Be Lived In, Not Just Looked At." The annual banquet will be held at 6:30, and a program of outstanding talent is being arranged.

From 9:30 to 11 a. m. Thursday the association will hold a business meeting. Afterward it will hear Harry Raben, of Goldfarb Flower Shops, Inc., New York, discuss "The Retail Merchandising Outlook for 1950." The meeting will be reconvened after luncheon to finish the business agenda.

OHIO PROGRAM.

The Ohio Nurserymen's Association will hold its forty-third annual convention January 26 and 27 at the Neil House, Columbus, immediately following the 3-day short course for nurserymen, landscape gardeners and arborists, which is sponsored annually by Ohio State University.

The convention will open with a business meeting at 10 a. m. Thursday. In the afternoon, starting at 2 p. m., John W. Baringer, chief of the Ohio division of plant industry, will report on the activities of his division. Prof. F. L. O'Rourke, department of horticulture, Michigan State College, East Lansing, will present a paper entitled "Propagation of Clonal Selections," and "The Nursery Outlook Across the Nation" will be discussed by R. P. White,

WHOLESALE PRICE LIST

GARDNER'S NURSERIES

ROCKY HILL, CONN.

2% cash discount for orders up to **\$1,500.00** from now to June 1, 1950
 5% cash discount for orders of **\$1,500.00** and more from now to June 1, 1950
 10% cash discount for orders of **\$2,500.00** and more from now to June 1, 1950

***BERBERIS ATROPURPUREA.**

Red Barberry.

	Per 100	Per 1000
2-yr. trans.		
15 to 18 ins.	\$25.00	\$200.00
18 to 24 ins.	30.00	250.00

***BERBERIS ATROPURPUREA.**

Red Barberry.

2-yr. untr.		
12 to 15 ins.		60.00
15 to 18 ins.		80.00
18 to 24 ins.		100.00

***BERBERIS THUNBERGI.**

Green Barberry.

2-yr. trans.		
15 to 18 ins.	20.00	150.00
18 to 24 ins.	25.00	200.00

***BERBERIS THUNBERGI.**

Green Barberry.

2-yr. untr.		
12 to 15 ins.		50.00
15 to 18 ins.		60.00
18 to 24 ins.		80.00

Write for special quantity prices on 10,000 and up.

***TSUGA CANADENSIS, Specimens.**

	Each	Each
	per 10	per 100
Canada Hemlock.		
2 to 3 ft., B&B, heavy.	\$2.60	\$2.50
3 to 4 ft., B&B, heavy.	3.60	3.50
4 to 5 ft., B&B, heavy.	5.10	5.00

***THUJA NIGRA.**

Black American Arborvitae.

2 to 3 ft.	2.10	2.00
3 to 4 ft.	3.10	3.00

***THUJA OCCIDENTALIS PYRAMIDALIS.**

Pyramidal Arborvitae.

2 to 3 ft., B&B.	2.10	2.00
3 to 4 ft., B&B.	2.60	2.50
4 to 5 ft., B&B.	3.10	3.00
5 to 6 ft., B&B.	4.10	4.00

***THUJA OCCIDENTALIS.**

American Arborvitae.

3 to 4 ft., B&B.	2.10	2.00
4 to 5 ft., B&B.	3.10	3.00

***THUJA OCCIDENTALIS GLOBOSA.**

Globe Arborvitae.

18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	1.85	1.75

***TAXUS CUSPIDATA CAPITATA.**

Upright Yew.

	Each	Each
	per 10	per 100
24 to 30 ins., B&B.	\$ 4.10	\$4.00
30 to 36 ins., B&B.	5.10	5.00
36 to 42 ins., B&B.	6.10	6.00
42 to 48 ins., B&B.	10.00	...

***TAXUS CUSPIDATA.**

Spreading Yew.

*18 to 24 ins., B&B.	3.10	3.00
24 to 30 ins., B&B.	4.10	4.00

***TAXUS HICKSI.**

Hicks' Yew.

24 to 30 ins.	4.10	4.00
30 to 36 ins.	5.10	5.00

***TAXUS HATFIELDI.**

Hatfield Yew.

24 to 30 ins.	4.10	4.00

***TAXUS INTERMEDIA.**

18 to 24 ins., spread.	3.60	3.50
24 to 30 ins., spread.	4.60	4.50

***TAXUS BREVIFOLIA.**

Spreading Yew.

15 to 18 ins., B&B.	4.10	4.00

***RETINOSPORA PLUMOSA.**

Plumosa.

18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

***RETINOSPORA PLUMOSA AUREA.**

Plumosa Aurea.

18 to 24 ins., B&B.	1.60	1.50
24 to 30 ins., B&B.	2.10	2.00
30 to 36 ins., B&B.	2.60	2.50

RHODODENDRON CATAWBIENSE.

18 to 24 ins.	3.10	3.00

RHODODENDRON MAXIMUM.

18 to 24 ins.	3.10	3.00

BLUEBERRY.

Cabot.

2 to 3 ft.	2.10	2.00

Rubel.

2 to 3 ft.	2.10	2.00

All items starred () can be certified for western shipment.

All Evergreens B&B at List Prices.

Deliveries by full truck and carload only—or call for your own stock.

NO BOXING

(Prices subject to change without notice.)

PENNSYLVANIA SEEDLINGS and TRANSPLANTS

grown at High Altitude, in the heart of the
ORIGINAL PENNSYLVANIA PINE FORESTS

	Per 100	Per 1000
American Red Pine, 2-0, 2 to 4 ins.....	\$4.00	\$30.00
American Red Pine, extra-good, 3-0, 4 to 8 ins.....	5.00	40.00
Scotch Pine, 2-0, 2 to 4 ins.....	2.00	15.00
Scotch Pine, very good, 2-yr., 4 to 6 ins.....	3.00	25.00
Scotch Pine, extra-good, 3-yr., 6 to 8 ins.....	3.50	30.00
Scotch Pine, extra-good, 3-yr., 8 to 12 ins.....	4.00	35.00
Larch, 2-yr., 5 to 8 ins.....	2.50	20.00
Pitch Pine (Adirondack), 2-yr., 5 to 8 ins.....	2.00	15.00
Mugho Pine, 2-yr., spreading.....	2.50	20.00
Mugho Pine, 3-yr., spreading.....	3.50	30.00

All stock offered subject to prior sale. Five per cent discount on orders of 25,000 or more seedlings, one or more species.

EXCELLENT ROOT SYSTEMS STURDY PLANTS

500 at 1000 rate. No charge for packing or boxing when cash accompanies order; otherwise, one-half cash with order, balance C.O.D.

SCHROTH'S NURSERY

Nursery: Pine Flats, Pa.

INDIANA, PA.

NORTHERN - GROWN LINING-OUT STOCK

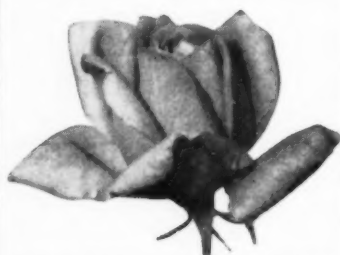
Betula papyrifera	Per 100	Per 1000
1 to 2 ft.....	8.00	850.00
2 to 3 ft.....	8.00	70.00
3 to 4 ft.....	25.00	.....
4 to 6 ft.....	40.00	.....
Clethra alnifolia		
6 to 18 ins.....	6.00	50.00
18 to 24 ins.....	8.00	70.00
Ilex verticillata		
1 to 2 ft.....	6.00	50.00
Syringa vulgaris		
1 to 2 ft.....	6.00	50.00
Viburnum cassinoides		
1 to 2 ft.....	6.00	50.00
Viburnum dentatum		
6 to 12 ins.....	5.00	40.00
1 to 2 ft.....	6.00	50.00

EVERGREENS

Abies balsamea		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	8.00	60.00
Thuja occidentalis		
6 to 9 ins.....	4.00	25.00
6 to 12 ins.....	5.00	40.00
Taxus canadensis		
4 to 8 ins.....	4.00	25.00
8 to 12 ins.....	5.00	40.00

The above stock is first-quality collected lining-out stock. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS
P. O. Box 352
Exeter, New Hampshire



NEW DARK VELVETY RED

No. 112

and other fragrant

SUB-ZERO HYBRID TEAS

Large and beautiful as any.
Easy to grow and long to live.
Save replacement expense.
Also Yellow and Orange Climbers.

Write for trade prices to

BROWNELL ROSES
LITTLE COMPTON, R. I.

executive secretary of the American Association of Nurserymen. Within the past year a new department has been added to the Ohio state government, the department of natural resources, and its director, A. W. Marion, former director of agriculture, will discuss the activities of his department as they relate to the nursery industry.

Friday morning's session will open with a round-table discussion on "Time and Laborsaving Equipment for the Nurseryman," led by Louis S. Bookwalter, Berry Hill Nursery Co., Springfield. Short talks will be given by various members on the equipment they are using at their nurseries to reduce costs of operations. Emphasis will be given to tools and equipment for the small or moderate-size nursery rather than for the large nursery. The featured speaker of the morning will be Dr. Joseph E. Howland, garden editor of House Beautiful magazine, New York, who will speak on "Climate Control—A New Way to Sell Nursery Products and Services."

At noon members of chapter 1 of the American Association of Nurserymen will hold a luncheon meeting. And in the afternoon Howard P. Quadland, public relations counsel for the A. A. N., New York, will speak on "Market Development and Public Relations."

The highlight of the convention will be the annual "Olde Tyme Dinner" Thursday evening in the Grand ballroom. A floor show has been arranged with talent from Chicago, Cleveland and New York. The traditional menu will be served in the usual style.

VIRGINIA PROGRAM.

The national economic situation will be the theme of the winter meeting of the Virginia Nurserymen's Association, January 29 to 31 at the Hotel John Marshall, Richmond. Members will register Sunday afternoon and in the evening will be guests of Richmond nurserymen for a buffet supper.

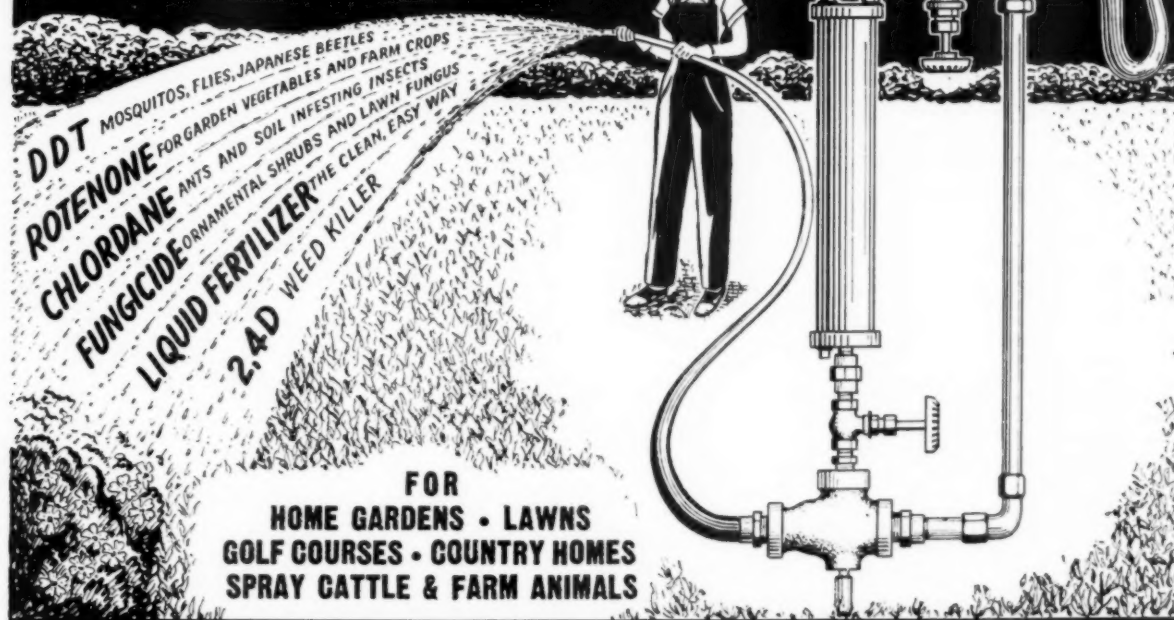
Following a Dutch treat breakfast at 8:30 Monday morning, the meeting will be called to order by President Moultrie Lanier. The address of welcome will be given by Mayor W. Sterling King. President Lanier will give a preview of the program, and committees will make reports. Feature of the morning session will be a talk by Richard P. White, executive secretary of the American Association of Nurserymen.

After the call to order for the

HOZZER CIDE SPRAYS

1 QT. CONCENTRATED HOZZER CIDE IN CYLINDER

GIVES YOU 65 GALLONS
OF MIXED SPRAY



BUGHOZZER

OPERATES ON REGULAR HOUSE WATER PRESSURE

An applicator for insecticides, fungicides, weed killers and liquid fertilizers. Operates from water pressure from ordinary hose connection.

Offers easiest way in the world to apply crab-grass killer.

Operating time is from 14 to 36 minutes, depending upon the amount of pressure used.

One quart of concentrate "HOZZER CIDE" sufficient to spray up to a half acre.

Complete instructions given on labels of spray material holders.

Apparatus weighs only eleven pounds, and may be installed in approximately two minutes. Simply drive stake into ground near water outlet, place the BUGHOZZER on stake, connect its hose to spigot and fasten garden hose to bottom. When cylinder is filled with toxicant, the concentrate is mixed properly with flowing water.

Many, many BUGHOZZER and HOZZER CIDE users and dealers are nurserymen.

ACCURATE TOOL CO.

(Insecticide Section)

15 Manufacturers Place

Newark 5, N. J.

DEALER AND SALES REPRESENTATIVES WRITE FOR INFORMATION

SHADE and NUT TREES

	Per 10	Per 100
Black Walnut, 3 to 4 ft., T.....	\$ 7.50	\$ 65.00
Black Walnut, 4 to 6 ft., T.....	9.00	80.00
Black Walnut, 6 to 8 ft., T.....	12.50	115.00
Black Walnut, 8 to 10 ft., T.....	16.50	150.00
Filbert, American, 2 to 3 ft.....	6.50	60.00
Filbert, American, 3 to 4 ft.....	9.00	85.00
Filbert, European, Barcelona, 4 to 5 ft.....	16.00	150.00
Pecan, Papershell, 3 to 4 ft.....	12.50	100.00
Pecan, Papershell, 4 to 6 ft.....	15.00	125.00
	Each	Per 10
Elm, American, 8 to 10 ft.....	\$2.25	\$21.50
Elm, American, 10 to 12 ft.....	2.65	25.00
Gum, Sour and Sweet, 4 to 6 ft.....	1.75	16.00
Gum, Sour and Sweet, 6 to 8 ft.....	2.50	23.50
Linden, American, 8 to 10 ft.....	3.00	27.50
Linden, American, 10 to 12 ft.....	3.75	35.00
Maple, Silver, 10 to 12 ft.....	2.25	21.50
Maple, Silver, 1 1/2 to 2-in. caliper.....	3.00	27.50
Maple, Silver, 2 to 2 1/2-in. caliper.....	4.50	42.50
Poplar, Lombardy, 8 to 10 ft.....		7.50
Poplar, Lombardy, 10 to 12 ft.....		12.00

CONIFEROUS AND BROAD-LEAVED EVERGREENS

	Each	Per 10
<i>Taxus cuspidata</i> capitata and hicksi,		
18 to 24 ins.....	\$3.50	\$32.50
24 to 30 ins.....	4.25	40.00
30 to 36 ins.....	5.50	50.00
<i>Taxus cuspidata</i> , 15 to 18 ins.....	2.75	25.00
<i>Taxus cuspidata</i> , 18 to 24 ins.....	3.50	32.50
<i>Taxus cuspidata</i> , 24 to 30 ins.....	4.25	40.00
<i>Buxus japonica</i> , 24 to 30 ins.....	4.25	40.00
<i>Buxus japonica</i> , 30 to 36 ins.....	5.75	55.00
<i>Buxus sempervirens</i> , 18 to 24 ins.....	3.75	35.00
<i>Buxus sempervirens</i> , 24 to 30 ins.....	5.00	47.50
<i>Rhododendron catawbiense</i> , 18 to 24 ins.....	2.50	22.50
<i>Rhododendron catawbiense</i> , 2 to 3 ft.....	3.00	27.50
<i>Rhododendron maximum</i> , 2 to 3 ft.....	2.50	22.50
<i>Rhododendron maximum</i> , 3 to 4 ft.....	3.50	32.50
<i>Kalmia latifolia</i> , 18 to 24 ins.....	2.00	17.50
<i>Kalmia latifolia</i> , 2 to 3 ft.....	2.50	22.50
<i>Ilex crenata rotundifolia</i> , 15 to 18 ins.....	1.75	15.00
<i>Ilex crenata rotundifolia</i> , 18 to 24 ins.....	2.50	22.50
<i>Pyracantha rogersi</i> , evergreen, red berries,		
2 to 3 ft.....	2.25	20.00
3 to 4 ft.....	3.00	27.50
4 to 6 ft.....	4.50	40.00
<i>Viburnum rhytidophyllum</i> , 5 to 6 ft.....	6.50	60.00

Send us your Want List for quotations or write for a copy of our More Complete Wholesale List.

WAYNESBORO NURSERIES

WAYNESBORO, VIRGINIA

LILACS

On own roots.
Large plants, 5 ft. and up.
Charles X, William Robinson,
Pres. Grevy, Leon Gambetta, etc.

To plant now
AMERICAN ARBORVITAE, 10 ft.
An assortment of heavy stock
for landscaping.

SAMUEL FRASER NURSERY, Genesee, N.Y.

PACHYSANDRA

The ideal permanent ground cover
plant for shady areas in all climates.
Strong, well rooted 1-yr.-old plants,
\$3.75 per 100; \$35.00 per 1000; 5000 or
more at \$32.50. Available March through
November.

PEEKSKILL NURSERY SHRUB OAK, N.Y.

CHINESE CHESTNUT TREES

Blight-resistant.
TREES—TRANSPLANTS—LINERS

THE GOLD CHESTNUT NURSERY
Cowen, W. Va.

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all.
In summer the color of the foliage is always changing,
first red, then pale green and then dark green. In
August the flower buds form, in graceful racemes for
next spring's flowers. White Lily of the Valley flowers
appear with the first warm weather, and flowers often
last 6 weeks. Grows well in sun or shade. Makes a nice
contrast with Azaleas and Rhododendrons.

Each
2 to 4 ins., T.....\$0.10
4 to 7 ins., T......15

Send for list of other choice plants.

ALANWOLD NURSERY
NESHAMINY, BUCKS CO., PA.

BURR

Leading wholesale source for
Nursery Stock

Send us your Want List.

C. R. BURR & CO., INC.
Manchester, Conn.

PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT
MILFORD DELAWARE

second session at 1:30 p. m., exhibitors will be introduced. The first of the guest speakers carrying out the convention theme will be Philip M. McKenna, Latrobe, Pa., whose subject will be "Resistance to the Socialist Trend." A round-table discussion will conclude the program.

The annual banquet will be held at 6 p. m., and Senator Harry Flood Byrd, Winchester, Va., will speak on "Where We Are—What Are We Going to Do about It?" Music and dancing will follow.

The concluding session will be called to order at 10 o'clock Tuesday morning when the report of the promotion and education committees will be given by A. J. Shoosmith and A. G. Smith, Jr. G. Edmond Massie, Richmond, Va., state senator and president of Garrett & Massie, will give a talk entitled "False Prophet." A round-table discussion of general nursery problems will follow.

At a group luncheon scheduled for noon, Dr. Edward D. Grant, Richmond, Va., executive secretary of the Presbyterian board of education, will discuss the question "Does America Want Socialism?"

MICHIGAN PLANS.

A streamlined program designed for education and enjoyment has been planned for the twenty-eighth annual convention of the Michigan Association of Nurserymen, February 1 to 2 at the Hotel Fort Shelby, Detroit.

Registration will begin at noon Wednesday, and there will be a reception and entertainment that evening in the hotel's new Sky room.

The business meeting will be opened at 10 a. m. Thursday with President A. W. (Dick) Krieger's address of welcome and report of progress, to be followed by the report of the secretary-treasurer, Bernard Ward. First of the guest speakers will be E. M. Miller, of the Human Engineering Institute, Kalamazoo, who will talk on business philosophy and salesmanship.

A member of the Michigan association, James I.E. Ilgenfritz will be present as a guest in his capacity of president of the American Association of Nurserymen to discuss national association matters. If possible, R. P. White, A. A. N. executive secretary, will be present to give the latest development in national legislation and other news from the nation's capital which will be of interest to nurserymen. A representative of the United States Department of Labor wages and hour division will tell how the wages and hour law affects the nursery industry.

From Michigan State College, Dr.

FOREST NURSERY CO., Inc.

Day Phone 234

McMINNVILLE, TENN.

Night Phone 17W

We offer the following understock plants, suitable for grafting or budding. All of these items are available for prompt shipment. We suggest that you get your order in early, as the supply of some items is limited.

UNDERSTOCKS For Grafting or Budding

ACER DASYCARPUM, Silver Maple.			FAGUS AMERICANA, American Beech.		
	Per 100	Per 1000		Per 100	Per 1000
Special, 1/4-inch up.....	\$ 2.00	\$15.00	Special, 1/4-inch up.....	\$ 3.00	\$25.00
No. 1, 3/16-inch up.....	1.75	12.50	No. 1, 3/16-inch up.....	2.50	20.00
No. 2, 2/16 to 3/16-inch.....	1.25	10.00	No. 2, 2/16 to 3/16-inch.....	2.00	15.00
ACER RUBRUM, Red Maple.			FRAXINUS AMERICANA, White Ash.		
ACER SACCHARUM, Sugar Maple.			FRAXINUS LANCEOLATA, Green Ash.		
Special, 1/4-inch up.....	2.50	20.00	5/16 to 7/16-inch, S.....	3.00	25.00
No. 1, 3/16-inch up.....	2.00	15.00	1/4-inch up, S.....	2.50	20.00
No. 2, 2/16 to 3/16-inch.....	1.75	12.50	3/16 to 1/4-inch, S.....	2.00	15.00
AESCULUS OCTANDRA, Yellow Buckeye.			HAMAMELIS VIRGINIANA, Witch Hazel.		
Special, 1/4-inch up.....	2.50	20.00	Special, 1/4-inch up.....	6.50	60.00
No. 1, 3/16-inch up.....	2.00	15.00	No. 1, 3/16-inch up.....	5.50	50.00
ALTHAEA ROSEA, Seedlings.			No. 2, 2/16 to 3/16-inch.....	4.50	40.00
Special, 1/4-inch up.....	2.00	15.00	ILEX OPACA, American Holly.		
No. 1, 3/16-inch up.....	1.75	12.50	Special, 1/4-inch up.....	6.50	60.00
No. 2, 2/16 to 3/16-inch.....	1.50	10.00	No. 1, 3/16-inch up.....	5.50	50.00
ARISTOLOCHIA TOMENTOSA, Dutchman's-pipe Vine. Seedlings.			No. 2, 2/16 to 3/16-inch.....	4.50	40.00
3/16 to 1/4-inch.....	3.00	25.00	JUGLANS NIGRA, Black Walnut.		
2/16 to 3/16-inch.....	2.00	15.00	Special, 7/16-inch up.....	6.00	50.00
BETULA NIGRA, River Birch.			No. 1, 5/16 to 7/16-inch.....	5.00	40.00
Special, 1/4-inch up.....	2.50	20.00	No. 2, 1/4-inch up.....	4.00	30.00
No. 1, 3/16-inch up.....	2.00	15.00	JUNIPERUS VIRGINIANA, Red Cedar.		
No. 2, 2/16 to 3/16-inch.....	1.75	12.50	Special, 1/4-inch up, Tr., field-grown.....	10.00	90.00
CARPINUS CAROLINIANA, Hornbeam.			No. 1, 3/16-inch up.....	8.00	70.00
Special, 1/4-inch up.....	4.00	35.00	No. 2, 2/16 to 3/16-inch.....	7.00	60.00
No. 1, 3/16-inch up.....	3.50	30.00	LIGUSTRUM AMURENSE, Amur River North Privet.		
No. 2, 2/16 to 3/16-inch.....	3.00	25.00	LIGUSTRUM OBTUSIFOLIUM, Iboia Privet.		
CORNUS FLORIDA, White-flowering Dogwood.			LIGUSTRUM OVALIFOLIUM, California Privet.		
Special, 1/4-inch up.....	5.00	45.00	LIGUSTRUM SINENSE, Amur River South Privet.		
No. 1, 3/16-inch up.....	4.00	35.00	1/4-inch up.....	3.00	25.00
No. 2, 2/16 to 3/16-inch.....	3.50	30.00	3/16 to 1/4-inch.....	2.50	20.00
No. 3, under 2/16-inch.....	3.00	25.00	No. 2, 2/16 to 3/16-inch.....	2.00	15.00
1/4-inch up, S.....	5.00	45.00	MORUS ALBA TATARICA, Russian Mulberry.		
3/16 to 1/4-inch, S.....	4.00	35.00	Special, 1/4-inch up.....	3.00	25.00
2/16 to 3/16-inch, S.....	3.50	30.00	No. 1, 3/16-inch up.....	2.50	20.00
CORNUS STOLONIFERA, Red Osier Dogwood.			No. 2, 2/16 to 3/16-inch.....	2.00	15.00
Special, 1/4-inch up.....	3.00	25.00	PLUM, Native American.		
No. 1, 3/16-inch up.....	2.50	20.00	1/4-inch up.....	4.50	40.00
No. 2, 2/16 to 3/16-inch.....	2.00	15.00	3/16 to 1/4-inch.....	3.50	30.00
DIOSPYROS VIRGINIANA, American Persimmon.			2/16 to 3/16-inch.....	2.00	15.00
Special, 1/4-inch up.....	2.50	20.00	ULMUS AMERICANA, White Elm. Northern Strain.		
No. 1, 3/16-inch up.....	2.00	15.00	ULMUS PUMILA, Chinese Elm.		
No. 2, 2/16 to 3/16-inch.....	1.75	17.50	Special, 1/4-inch up.....	2.50	20.00
No. 3, under 2/16-inch.....	1.25	10.00	No. 1, 3/16-inch up.....	2.00	15.00
5/16 to 7/16-inch, S.....	4.00	35.00	No. 2, 2/16 to 3/16-inch.....	1.50	10.00
1/4 to 5/16-inch, S.....	3.50	30.00	WISTARIA FRUTESCENS, American Wistaria. Seedlings.		
3/16 to 1/4-inch, S.....	3.00	25.00	WISTARIA SINENSE, Chinese Blue Wistaria.		
			1/4-inch up.....	10.00	90.00
			3/16 to 1/4-inch.....	9.00	80.00
			2/16 to 3/16-inch.....	8.00	70.00

See our advertisement on pages 18 to 24 in the January 1 issue on **Deciduous Flowering Shrubs; Forest and Nut Trees; Vines and Creepers; Coniferous and Broad-leaved Evergreens; Cherries; Rhubarb and Asparagus, and Hardwood Cuttings.**

LINING-OUT and FINISHED STOCK

Offered below are potted rooted cuttings and field bed transplants, x indicating times transplanted. 25 of one item at the 100 rate, 250 at the 1000 rate. No charge for packing when cash accompanies order. Otherwise, 25 per cent with order, balance net 30 days where credit is established. Others, C.O.D. Packing at actual cost. All prices F.O.B. New Augusta, Ind.

LINERS

	Each per 100	Each per 1000		Each per 100	Each per 1000
849 Juniperus Horizontalis Plumosa, 1-yr. pots	\$0.17	\$0.15	5265 Taxus Media, Globe, 1-yr. pots	\$0.20	\$0.18
1391 Juniperus Communis, Vase, 1-yr. pots	.17	.15	7655 2-yr. pots	.23	.21
3742 Taxus Cuspidata, 1-yr. pots	.20	.18	2741 6 to 8 ins., x.	.25	.22
6022 2-yr. pots	.25	.23	1349 10 to 12 ins., xx.	.35	.32
3789 6 to 8 ins., x.	.27	.24	2731 Taxus Media Hatfieldi, 1-yr. pots	.20	.18
3960 Taxus Cusp. Intermedia, 2-yr. pots	.25	.23	2909 2-yr. pots	.24	.22
1017 Taxus Cusp., Kallay's Imp., 6 to 8 ins., x.	.27	.24	1384 6 to 8 ins., x.	.25	.23
1689 Taxus Cusp. Nana, 1-yr. pots	.20	.18	2417 8 to 10 ins., xx.	.28	.25
4266 2-yr. pots	.23	.21	9503 Taxus Media Hicksi, 1-yr. pots	.19	.17
897 6 to 8 ins., x.	.25	.24	1114 2-yr. pots	.34	.31
1772 Taxus Cusp. Pyramidalis Hilli, 1-yr. pots	.20	.18	4085 10 to 12 ins., xx.	.34	.31
1396 2-yr. pots	.24	.22	1865 Taxus Media Thayerae, 1-yr. pots	.20	.18
1884 6 to 8 ins., x.	.26	.24	1195 Taxus Media Wellesleyana, 2-yr. pots	.24	.22
3226 Taxus Cusp. Yavdiva, 2-yr. pots	.24	.22	410 Thuja Occidentalis Elegantiissima, 1-yr. pots	.16	.14
			930 Thuja Occidentalis Globosa, 1-yr. pots	.16	.14
			1897 Buxus, Carr's Hardy, 1-yr. pots	.20	.18
			883 2-yr. pots	.24	.22

FINISHED SIZES

Fine, finished, landscape grades, all B&B. 5 or more at the 10 rate; 25 or more at the 100 rate.

	Each per 10	Each per 100		Each per 10	Each per 100
600 Juniperus Chin. Pfitzeriana, 3 to 4 ft.	\$ 6.00	\$5.50	250 Juniperus Virg. Kosteri, 3 to 4 ft.	\$6.00	\$5.50
600 4 to 5 ft.	7.00	6.50	500 Taxus Cuspidata, 18 to 24 ins.	4.50	4.00
400 Juniperus Horizontalis Plumosa, 2 to 2 1/2 ft.	2.50	2.25	500 2 to 2 1/2 ft.	5.75	5.25
300 2 1/2 to 3 ft.	3.00	2.75	500 Taxus Media Hicksi, 18 to 24 ins.	4.50	4.00
300 Juniperus Horizontalis Douglasi, 2 to 2 1/2 ft.	2.50	2.25	500 2 to 2 1/2 ft.	5.75	5.25
100 Juniperus Virg. Pyramidifolia, 7 to 8 ft.	10.00	9.00	100 Thuja Occidentalis, 4 to 5 ft.	4.00	3.75
			100 Thuja Occidentalis Pyramidalis, 4 to 5 ft.	4.50	4.00
			200 Thuja Occidentalis Wareana, 2 1/2 to 3 ft.	3.25	3.00

WRITE FOR COMPLETE LINER AND SURPLUS LIST

WANT LIST

The following items are needed, both in liners and finished stock. Please quote us what you can supply, per 100 and per 1000.

Euonymus Alatus Compactus, liners, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.
Mahonia Aquifolium, liners, 12 to 15 ins., 15 to 18 ins. and 18 to 24 ins.
Viburnum Rhytidophyllum, liners, 12 to 15 ins., 15 to 18 ins. and 18 to 24 ins.
Viburnum Tomentosum, 18 to 24 ins., 2 to 3 ft. and 3 to 4 ft.



EAGLE CREEK NURSERY CO.

NEW AUGUSTA, INDIANA

On U. S. Highway 52 - 12 Miles N. W. of Indianapolis

CHINESE CHESTNUT

BLIGHT-RESISTANT

Hemming strain of trees raised only from our heavy-bearing parent trees.

	Per 10	Per 100	Per 1000
18 to 24 ins.	\$ 3.50	\$32.50	\$300.00
2 to 3 ft.	6.00	55.00	500.00
3 to 4 ft.	8.00	70.00	650.00

F.O.B. Nurseries, packing extra.

EASTERN SHORE NURSERIES, Inc.
EASTON, MARYLAND

THE RHODE ISLAND NURSERIES

NEWPORT, R. I.

Acer palmatum atropurpureum, 3-yr. transplants, 6 to 12 ins.
Viburnum opulus, 2-yr. transplants, 6 to 12 ins.
Myrica cerifera, 2-yr. transplants, 3 to 6 ins.

Write for samples and prices.

C. M. Hardin, dean of the agricultural experiment stations, will tell about some of the college's new projects, and Dr. Harold B. Tukey, head of the department of horticulture, will be toastmaster at the banquet Thursday evening.

Business sessions will close Friday shortly after noon, and Michigan nurserymen and out-of-state guests are urged to attend by Charles Greening, vice-president and general convention chairman.

Mrs. Walter M. Coon, as chairman of the ladies' entertainment committee, has planned a luncheon with entertainment and announces that the hotel is making a parlor available to the ladies for visiting and playing cards any time they wish during the convention.

TENNESSEE PROGRAM.

The forty-fifth annual convention of the Tennessee State Nurserymen's Association and the third annual nurserymen's short course sponsored by the department of horticulture of the University of Tennessee will be held February 1 to 3 at Knoxville, with headquarters at the Andrew Johnson hotel. Activities will start with an evening jamboree at 8 o'clock February 1.

The sessions February 2 will be held at the University of Tennessee agricultural college and will be called to order at 9:30 a. m. by President Joe N. Howell, Knoxville. After the invocation by Rev. Paul Martin, pastor of the Magnolia Avenue Methodist church, Mayor James Elmore will give a message of welcome, and Richard H. Jones, Nashville, will respond on behalf of the nurserymen. Robert Boyd, McMinnville, will present a new gavel to President Howell before he makes his presidential address entitled "Don't Overlook a Good Bet." Following the report of Secretary-treasurer John F. Varnell, Cleveland, committees will be appointed, and Kent McClain, Knoxville, will make announcements.

The short course program will begin with a talk on "Fruit Variety Nomenclature" by John T. Bregger, Clemson, S. C., president of the American Pomological Society, and will be followed by four more talks during the morning session. They will be "Adapted Varieties of Brambles and Strawberries for Tennessee," by Troy James, associate professor of horticulture, University of Tennessee; "Nut Varieties for the South," by Spencer B. Chase, forests products section, Tennessee Valley Authority, Norris; "Progress

BUNTINGS' NURSERIES, Inc.

Box 3 Selbyville, Del.

Place your order now for shipment when wanted. All stock listed here can be shipped promptly upon receipt of order. Liberally graded, true-to-name, best quality stock—offered at attractive prices.

CANNAS

Carefully grown under our personal supervision, they are true-to-name, liberally graded, 2 to 5-eye, strong divisions and will please the most exacting type of customer. Our Cannas are available for delivery when wanted during the Winter and Spring months.

	Per 100	Per 1000
Allemania, Ambassador, Charles Henderson, City of Portland, Egandale, Firebird, Florence Vaughan, Golden Gate, Hungaria, Kate Grey, King Midas, Madam Crozy, Richard Wallace, Shenandoah, Venus Pink, Wintzer's Colossal, Wyoming.....	\$6.00	\$50.00
King Humbert, President, Copper Giant, Louis Cayeux, Yellow King Humbert.....	7.00	60.00

PEACH TREES

1-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.75	6.00	50.00	450.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.55	4.00	30.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.00	20.00	150.00
1/4 to 5/16-in., 2 to 3 ft.....	.40	2.50	15.00	125.00

Belle of Georgia, Brackett, Carman, Crawford's Early, Crawford's Late, Early Rose, Elberta, Gage Elberta, Goldeneast, Golden Jubilee, Greensboro, Halehaven, Heath Cling, Hiley, J. H. Hale, Krummel's Late, O'Boy, Redhaven, Rochester, Shipper's Late Red, Summercrest, Triogem, Valiant, Vedette, White Hale.

APPLE TREES

2-year Buds	Each	Per 10	Per 100	Per 1000
1-in. and up, heavily br.....	\$1.05	\$9.00	\$80.00	\$750.00
7/8 to 1-in., 6 to 7 ft.....	.90	7.50	65.00	600.00
11/16 to 7/8-in., 5 to 6 ft.....	.70	5.50	45.00	400.00
9/16 to 11/16-in., 4 to 5 ft.....	.65	5.00	40.00	350.00
7/16 to 9/16-in., 3 to 4 ft.....	.50	3.80	28.00	250.00
5/16 to 7/16-in., 2 to 3 ft.....	.45	3.20	22.00	200.00

Baldwin, Double Red Delicious, Red Gravenstein, Grimes Golden, Hyslop Crab, Double Red Jonathan, Lodi, McIntosh, Double Red McIntosh, Red Spy, Red Rome, R. I. Greening, Solid Red Delicious, Double Red Stayman, Williams Early Red, Yellow Delicious, Yellow Transparent, York Imperial.

PEAR TREES

2-year Buds	Each	Per 10	Per 100
11/16-in. and up, 5 to 6 ft.....	\$1.05	\$9.00	\$75.00
9/16 to 11/16-in., 4 to 5 ft.....	.90	7.50	60.00
7/16 to 9/16-in., 3 to 4 ft.....	.75	6.00	45.00

Bartlett, Clapp Favorite, Duchess, Kieffer, Seckel.

SOUR CHERRY

	Each	Per 10	Per 100
11/16-in. cal. and up.....	\$1.20	\$10.50	\$90.00
9/16 to 11/16-in. cal.....	1.10	9.50	80.00
7/16 to 9/16-in. cal.....	.95	8.00	65.00
5/16 to 7/16-in. cal.....	.85	7.00	55.00

Montmorency, May Duke, Early Richmond, English Morello.

SWEET CHERRY

	Each	Per 10	Per 100
11/16-in. cal. and up.....	\$1.40	\$12.50	\$115.00
9/16 to 11/16-in., 4 to 5 ft.....	1.15	10.00	90.00
7/16 to 9/16-in., 3 to 4 ft.....	1.00	8.50	75.00
5/16 to 7/16-in., 2 to 3 ft.....	.90	7.50	65.00

Black Tartarian, Governor Wood, Lambert, Napoleon, Schmidt's Bigarreau, Yellow Spanish.

ASPARAGUS ROOTS

Our Asparagus Roots have made a very good growth this season. We are the largest growers of Asparagus in the country. Write for special prices on large numbers.

MARY WASHINGTON, PARADISE

	Per 25	Per 100	Per 250	Per 1000
2-yr., No. 1.....	\$0.75	\$2.50	\$4.75	\$16.00
1-yr., No. 1.....	.60	2.00	3.50	10.00

RHUBARB ROOTS

VICTORIA, MYATT'S LINNAEUS.

	Per 25	Per 100	Per 250	Per 1000
2-in. and up, forcing grade.....	\$2.75	\$9.50	\$22.50	
1 1/2 to 2-in. cal.....	2.00	6.50	15.00	\$55.00
1 to 1 1/2-in. cal.....	1.50	4.50	10.00	35.00
3/8 to 1-in. cal.....	1.25	3.50	7.50	25.00
1/2 to 3/8-in. cal.....	1.00	2.50	5.00	16.00

BERRY PLANTS

No. 1 grade

	Per 10	Per 25	Per 100	Per 1000
Thorny Boysenberry.....	\$1.00	\$2.00	\$6.00	\$40.00
Thornless Boysenberry.....	1.00	2.00	7.00	50.00
Lucretia Dewberry.....	.60	1.25	4.00	30.00
Cumberland Raspberry.....	1.00	2.00	6.00	45.00
Indian Summer Raspberry.....	1.00	2.00	7.00	60.00
Latham Raspberry.....	1.00	2.00	6.00	50.00
St. Regis Raspberry.....	1.00	2.00	6.00	50.00
Sunrise Raspberry.....	1.00	2.00	7.00	60.00
Blowers Blackberry.....	1.00	2.00	6.00	45.00
Eldorado Blackberry.....	1.00	2.00	6.00	45.00

GRAPEVINES

Our grapes have heavy, fibrous root systems, with many lengthy canes at the top. Write for prices on large numbers.

	Each	Per 10	Per 100	Per 1000
CONCORD (blue):				
2-yr., No. 1 grade.....	\$0.25	\$1.75	\$12.00	\$90.00
1-yr., No. 1 grade.....	.20	1.50	9.00	60.00

FREDONIA (black).

NIAGARA (white):

2-yr., No. 1 grade.....	.25	1.75	12.00	100.00
1-yr., No. 1 grade.....	.20	1.50	9.00	70.00

AGAWAM (red), BRIGHTON (red),

CATAWBA (mahogany), MOORE'S

DIAMOND (white), MOORE'S

EARLY (black), WORDEN (black):

2-yr., No. 1 grade.....	.30	2.00	15.00	120.00
1-yr., No. 1 grade.....	.25	1.75	12.00	90.00

CACO (red), DELAWARE (red).

PORTLAND (white):

2-yr., No. 1 grade.....	.30	2.25	18.00	150.00
1-yr., No. 1 grade.....	.25	2.00	15.00	120.00

PLUM TREES

	Each	Per 10	Per 100
11/16 to 7/8-in., 5 to 6 ft.....	\$1.00	\$8.50	\$75.00
9/16 to 11/16-in., 4 to 5 ft.....	.85	7.00	60.00
7/16 to 9/16-in., 3 to 4 ft.....	.70	5.50	45.00
5/16 to 7/16-in., 2 to 3 ft.....	.65	5.00	40.00

Abundance, Burbank, Fellenberg, Stanley, Shropshire Damson, Red June.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you did not receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery. If interested in large lots, please submit a list of your anticipated requirements for special consideration.

PLUMFIELD NURSERIES

BOX 7

L. A. Moffet, Mgr.

FREMONT, NEB.

TERMS AND CONDITIONS OF SALE

TERMS—One per cent discount for cash if paid on or before 10th of month following date of invoice, and is due NET 30 days thereafter. Interest charged on past due accounts.

These terms are offered to those with established credit; otherwise cash, security, or satisfactory references. C.O.D. orders must be accompanied by one-fourth cash.

PRICES in this list are based upon present market conditions and are subject to change without notice. These are Wholesale Prices and apply upon the following quantities:

SURPLUS LIST

	Per 10	Per 100	Per 1000
500 Thuja Orientalis, R.P., 12 to 18 ins.	\$ 1.00	\$ 8.50	\$ 75.00
5000 Thuja Orientalis, R.P., 9 to 12 ins.	.80	7.00	60.00
5000 Thuja Orientalis, R.P., 6 to 9 ins.	.70	6.00	50.00
100 Juniper, Andorra, TTT, 12 to 18 ins.	6.00	55.00	500.00
70 Juniper, Tamarix, TTT, 12 to 18 ins.	7.00	65.00	600.00
500 Juniper, Hetz, TTT, 12 to 18 ins.	6.00	55.00	500.00
200 Juniper, Hetz, TTT, 9 to 12 ins.	4.70	45.00	420.00
200 Juniper, Savin, TTT, 15 to 18 ins.	8.50	75.00	650.00
6000 Juniper, Savin, TTT, 12 to 15 ins.	5.50	50.00	450.00
3000 Juniper, Savin, TTT, 9 to 12 ins.	4.50	40.00	350.00
600 Juniper, Scopulorum (Silver Jun.), TTT, 2 to 3 ft.	10.00	90.00	800.00
2000 Juniperus Virginiana (Neb. type), 2 to 3 ft.	5.50	50.00	450.00
2500 Juniperus Virginiana (Neb. type), TTT, 18 to 24 ins.	4.50	40.00	350.00
3000 Juniperus Virginiana (Neb. type), TTT, 12 to 18 ins.	3.00	25.00	200.00
4000 Juniperus Virginiana (Neb. type), TTT, 9 to 12 ins.	2.50	20.00	150.00
1000 Pine, Ponderosa, R.P., 18 to 24 ins.	2.50	23.00	200.00
18,000 Pine, Ponderosa, R.P., 9 to 12 ins.	1.80	15.00	120.00
10,000 Pine, Ponderosa, R.P., 6 to 9 ins.	1.50	12.00	90.00
3000 Pine, Banksiana, R.P., 18 to 24 ins.	1.80	15.00	120.00
2500 Pine, Banksiana, R.P., 12 to 18 ins.	1.50	12.00	100.00
2000 Pine, Banksiana, R.P., 9 to 12 ins.	1.20	10.00	80.00
3000 Pine, Sylvestris, R.P., 12 to 18 ins.	2.20	20.00	180.00
9000 Pine, Sylvestris, R.P., 9 to 12 ins.	2.00	18.00	150.00
4000 Pine, Sylvestris, R.P., 6 to 9 ins.	1.50	12.00	100.00

FIELD-GROWN GRAFTS

	Per 10	Per 100
400 Juniper, Pathfinder, 18 to 24 ins., TTT, 2-yr., in field.	\$13.00	\$120.00
700 Juniper, Pathfinder, 12 to 18 ins., TTT, 1-yr., in field.	9.00	85.00

FOR 52 YEARS

Our business has been
growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

BOBBINK & ATKINS

E. RUTHERFORD, N. J.

LINING-OUT STOCK

Spring, 1950

Hardy Azalea Hinodegiri, Hinomayo, Nomo, Snow, Azalea Kaempferi Hybrids; Carmen, Cleopatra, Fedora, Atlanta, Mme. Butterfly, etc.

1-yr., 3 to 5 ins., 18c ea.;
4 to 6 ins., 25c ea.

2-yr., 4 to 6 ins., 35c ea.;
6 to 8 ins., 50c ea.

Cornus florida rubra, 1-yr. grafts, 18 to 24 ins., 75c ea. Acer atropurpureum, 1-yr. grafts, 9 to 12 ins., 75c ea. Lilacs, 1-yr. grafts, many varieties, 20c ea. Ask for complete list of other varieties.

DEERFIELD NURSERIES

DEERFIELD STREET P.O., N. J.

TAXUS BREVIFOLIA

Finished stock. Come and see it.
In lots of 25 to 100. For cash.

Each
15 to 18 ins., B&B.....\$3.50
18 to 24 ins., B&B.....4.50

No shipping. Send your truck.

HUEBNER'S NURSERY

MONROE, N. Y.

Route 17

Orange County



LINERS

WELL ESTABLISHED

List and prices
on request.

GRESHAM'S NURSERY

R.F.D. 9

RICHMOND, VA.

Report on Experimental Work with Woolly Apple Aphis," by W. W. Stabley, entomologist, state agricultural experiment station, Knoxville, and "Are You a Good Salesman?" by Dr. Axel Brett, professor of philosophy and psychology, University of Tennessee.

To open the afternoon session Dr. N. D. Peacock, vice-dean of the university's college of agriculture, will introduce the new head of the department of horticulture, Dr. B. S. Pickett, who will report on "The Ornamental Horticulture Curriculum." A talk entitled "So You Planted a Job?—Now What?" will be made by Fred C. Galle, assistant professor of horticulture, and another on "Lawn Grass Problems," by J. K. Underwood, associate professor of agronomy. Following a panel discussion on "Leading Plant Material for My Section," Prof. G. M. Bentley, state entomologist emeritus, will introduce the new state entomologist. A tour of McCord Hall, the university's new dairy building, will wind up the afternoon session.

At 5:45 p. m. nurserymen will assemble in the lobby of the Andrew Johnson hotel for a trip to Gatlinburg, where Howell Nurseries will be host for a dinner. Rev. F. C. Atkins, pastor of Oakwood Baptist church, will be toastmaster, and a floor show will be presented by Joe Canaday and the Sourwood trio.

The association's business meeting will be held in the main assembly room of the Andrew Johnson hotel Friday morning at 9 o'clock. A representative of Bell & Howell Co., Chicago, will talk on "Sales with the Right Picture Setup," and Curtis Porterfield, administrative assistant for the American Association of Nurserymen, Washington, D. C., will report on "A. A. N. Activities." A presentation of a scholarship award by the Tennessee State Nurserymen's Association and the Tennessee Federation of Garden Clubs will be made by the vice-presidents of the two associations, H. R. Potter and Mrs. R. L. McReynolds. Dean Peacock will make the acceptance. The final talk on the program will be entitled "Try Something New," and the speaker will be announced later.

The consideration of the adoption of new bylaws and code of ethics will be discussed by Hoskins Shad-ow, Winchester.

OREGON PLANS.

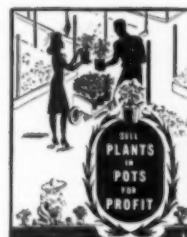
A one-day meeting will be held by the Oregon Association of Nurserymen February 2 in the Georgian room of the Heathman hotel, Port-



Can You Handle a Bigger Nursery Business?

... THEN SWITCH TO THE MODERN METHOD—
USE CLOVERSET POTS!

Time after time, the balance sheets have proved that a change to Cloverset Pots has been a change to **INCREASED PROFITS** from bigger business. Over 5,000 nurserymen and florist growers now do business the modern, streamlined Cloverset way—because it **PAYS**.

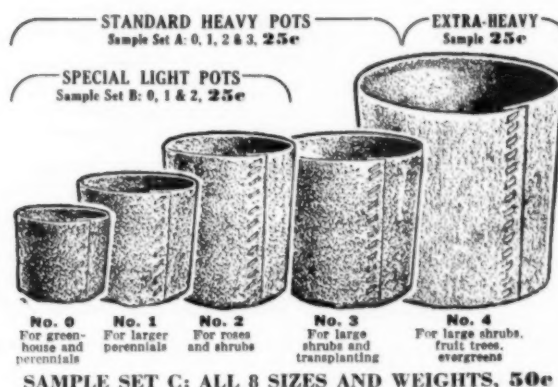


Make it a point to fill out the coupon below right now; get your copy of the free book that tells how to "Sell Plants in Pots for Profit." Ask for a sample set of pots at the same time, and see for yourself how easy they are to handle. Growing stock in Cloverset Pots will save a lot of time for your workers. And your customers are sure to like them, because healthy plants in Cloverset Pots are easier to buy, easier to carry home safely, can be transplanted whenever convenient and are much more sure to grow.

Cloverset Pots*

1. Extend your profitable cash-and-carry season from early spring to late fall.
2. Make prettier displays; attract best-type customers.
3. Increase customer satisfaction.
4. Make it safer for you to guarantee that your stock will thrive and grow.
5. Build **MORE** business at bigger **PROFITS** per sale.

*Patent Number
2073695



Practical Nurserymen for Over 26 Years

**FILL OUT AND MAIL
THIS COUPON TODAY** ➔

**Cloverset
Flower Farm**

105th Street and Broadway Kansas City 5, Missouri

Cloverset Flower Farm
105th St. and Broadway
Kansas City 5, Mo.

**ALL SENT
POSTPAID**

Please send me items checked. I enclose.....c.

- ☐ SAMPLE SET A, 25c ☐ SAMPLE SET B, 25c
☐ SAMPLE OF POT NO. 4, extra-heavy, 25c
☐ SAMPLE SET C, all 8 sizes and weights, 50c
☐ FREE BOOK, "Sell Plants in Pots for Profit"

Name.....

Firm.....

Address.....

City.....Zone.....State.....

PLUMFIELD NURSERIES

BOX 7

L. A. Moffet, Mgr.

FREMONT, NEB.

TERMS AND CONDITIONS OF SALE

TERMS—One per cent discount for cash if paid on or before 10th of month following date of invoice, and is due NET 30 days thereafter. Interest charged on past due accounts.

These terms are offered to those with established credit; otherwise cash, security, or satisfactory references. C.O.D. orders must be accompanied by one-fourth cash.

PRICES in this list are based upon present market conditions and are subject to change without notice. These are Wholesale Prices and apply upon the following quantities:

				Per 100	Per 1000					Per 100	Per 1000						
Ash, Green.																	
15,000	18 to 24 ins...			\$ 2.50	\$ 22.00	Mulberry, Russian.											
70,000	12 to 18 ins...			1.80	15.00												
200,000	6 to 12 ins...			1.20	10.00												
Caragana.																	
1000	2 to 3 ft...			6.00	55.00	31,000	2 to 3 ft...		\$ 4.00	\$ 35.00							
5000	18 to 24 ins...			4.50	40.00	20,000	18 to 24 ins...		2.90	25.00							
12,000	12 to 18 ins...			3.20	28.00	10,000	12 to 18 ins...		1.90	16.00							
20,000	6 to 12 ins...			2.10	18.00	59,000	6 to 12 ins...		1.20	10.00							
Cottonwood.																	
7000	3 to 4 ft...			1.70	15.00	Pin Oak.											
30,000	2 to 3 ft...			1.40	12.00												
12,000	12 to 18 ins...			.80	7.00												
Cydonia Japonica																	
3500	6 to 12 ins...			2.50	20.00	11,000	2 to 3 ft...		12.00	100.00							
Elm, Chinese.																	
20,000	2 to 3 ft...			3.50	30.00	500	18 to 24 ins...		9.00	80.00							
160,000	18 to 24 ins...			2.40	20.00	1500	12 to 18 ins...		7.00	60.00							
100,000	12 to 18 ins...			1.70	14.00	450	8 to 12 ins...		5.00	40.00							
2,000,000	6 to 12 ins...			.80	7.00	Poplar, Lombardy, 1-yr.											
Honeysuckle.																	
100,000	6 to 12 ins...			2.50	20.00												
Honey Locust. Thornless.																	
2000	2 to 3 ft...			3.50	30.00	1600	5 to 6 ft...		14.00	120.00							
5000	18 to 24 ins...			2.60	22.00	1000	4 to 5 ft...		10.00	90.00							
10,000	12 to 18 ins...			1.80	15.00	500	3 to 4 ft...		8.50	75.00							
80,000	6 to 12 ins...			1.40	12.00	100	2 to 3 ft...		5.60	50.00							
Locust, Black.																	
8000	3 to 4 ft...			4.50	40.00	Redbud.											
20,000	2 to 3 ft...			2.90	25.00												
Nebraska-grown, Nebraska seeds.																	
						2000	12 to 18 ins...		7.50	70.00							
						10,000	6 to 12 ins...		5.00	40.00							
Sand Cherry.																	
						8000	2 to 3 ft...		10.00	90.00							
						30,000	18 to 24 ins...		8.00	70.00							
						30,000	12 to 18 ins...		5.50	50.00							
						15,000	6 to 12 ins...		4.00	35.00							

Write for special quotations on large quantities.

TREE PEONY TULIPS

Newest and largest sensation of all Tulips. Resembles Tree Peony blooms; sixteen varieties.

Exclusive offering to the trade.

11 cm. and up, \$175.00 per 1000.

F.O.B. Great Neck.

Supply limited—Order now.
Delivery Fall, 1950.

LOUIS SMIRNOW

6 HARTLEY RD.
GREAT NECK, L. I., N. Y.

ROSA MULTIFLORA JAPONICA

Excellent stock
Row-run, \$18.00 per 1000
Sample for \$2.00

BROOKVILLE NURSERIES
GLEN HEAD, N. Y.

LINERS

Ask for list.

BROUWER'S NURSERIES
Box 25 NEW LONDON, CONN.

The Yew, listed by us as *Taxus Cuspidata*, compact form, is surely a superior spreading form—in fact, we have never seen any better. Even our straight *Cuspidata* is grown only from a selected, uniform strain.

F & F NURSERIES

SPRINGFIELD, N. J.

POTTED LINERS

CRAFTS

(Beetle Certified)

HEASLEY'S NURSERIES

Freeport Rd. BUTLER, PA.

NORTHERN COLLECTED EVERGREENS

FERNS

PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD
Charlotte, Vermont

land. As is the custom at the association's midwinter meeting, the program will be devoted mainly to hearing committee reports and reports from the faculty of Oregon State College and to discussing association business.

Following the call to order at 9:15 a. m. by President E. (Mike) Dering, will be the reading of the minutes by Secretary R. A. Walker and the treasurer's report by Lynn Brooks. Committee reports will be heard as follows: Legislative by James Doty; quarantine by Avery Steinmetz; transportation by Wayne McGill; and membership by Sigward Edstrom. Wayne Melott, nursery representative on the Oregon Bulb, Florist and Nursery Council, which will meet the day before, will report on the council's activities. Avery Steinmetz will present a nursery stock survey.

A state college hour has been planned for 11 o'clock at which Dr. Roy Young, pathologist, will present research data on sclerotia of *Camellia japonica*; R. Ralph Clark, horticultural specialist, will discuss blueberries, and Al Roberts, associate horticulturist, will talk about dwarf rootstocks for fruit trees.

After luncheon members will discuss cooperative advertising and publicity. A business meeting of Oregon chapter 12 of the American Association of Nurserymen will be held at 3:30, with President Julia Hausch presiding.

COMBINED NEW ENGLAND-MASSACHUSETTS PROGRAM.

Meetings of the New England Nurserymen's Association, the Massachusetts Nurserymen's Association and chapter 5 of the American Association of Nurserymen will be held February 7 to 9 at the Hotel Kenmore, Boston. It will be the thirty-ninth annual convention for New England nurserymen and the forty-first annual convention for Massachusetts nurserymen.

Activities will begin Monday morning with a meeting of the Massachusetts Nurserymen's Association at 10 o'clock in the Crystal ballroom. Following roll call, President Luke May will give his address and Secretary C. J. Gilgut and Treasurer Charles Godin will report. Reports of some special committees will be heard, Mr. May reporting for the legislative committee and Mr. Godin for the membership committee.

Members of the Massachusetts and New England associations will gather together at luncheon to hear the keynote speaker, Dr. Richard P.

GRAFTED STOCK For Spring, 1950, Delivery

	Per 10	Per 100		Per 10	Per 100
<i>Acer palmatum atropurpureum</i>	\$7.00	\$65.00	<i>Juniperus virginiana elegantissima</i>	\$5.00	\$45.00
<i>Acer palmatum dissectum atropurpureum</i>	7.00	65.00	<i>Juniperus virginiana glauca</i>	5.00	45.00
<i>Cornus florida alba plena</i>	5.00	45.00	<i>Juniperus virginiana globosa</i>	5.00	45.00
<i>Cornus florida rubra</i>	5.00	45.00	<i>Juniperus virginiana kosteriana</i>	5.00	45.00
<i>Cornus florida rubra Prosser</i>	7.00	65.00	<i>Juniperus virginiana schotti</i>	5.00	45.00
<i>Fagus sylvatica riversi</i>	7.00	65.00	<i>Juniperus virginiana pyramidaformis hilli</i>	5.00	45.00
<i>Ilex opaca femina</i>	5.00	45.00	<i>Juniperus sabina Von Ehron</i>	5.00	45.00
<i>Juniperus chinensis columnaris glauca</i>	5.00	45.00	<i>Magnolia lennei</i>	7.00	65.00
<i>Juniperus chinensis columnaris viridis</i>	5.00	45.00	<i>Magnolia soulangeana</i>	6.50	60.00
<i>Juniperus chinensis keteleeri</i>	5.00	45.00	<i>Magnolia soulangeana nigra</i>	6.50	60.00
<i>Juniperus chinensis neaboriensis</i>	5.00	45.00	<i>Magnolia stellata</i>	6.50	60.00
<i>Juniperus chinensis sargentii</i>	5.00	45.00	<i>Magnolia stellata, Water Lily</i>	6.50	60.00
<i>Juniperus chinensis sargentii glauca</i>	5.00	45.00	<i>Magnolia rustica rubra</i>	7.00	65.00
<i>Juniperus chinensis meyeri</i>	5.00	45.00	<i>Tsuga canadensis pendula</i>	5.50	50.00
<i>Juniperus virginiana burki</i>	5.00	45.00	<i>Tsuga canadensis pendula, 1-yr. grafts</i>	7.00	65.00
<i>Juniperus virginiana canaerti</i>	5.00	45.00			

Prices are F.O.B. Mountain View, N. J., packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

White, executive secretary of the American Association of Nurserymen, discuss "Where Are We Going?" The afternoon session will be a short one devoted to business.

Immediately upon adjournment of the Massachusetts meeting, the New England Nurserymen's Association will hold its meeting in the same room, hearing the address of President Arthur E. Webster and the reports of Secretary Louis C. Vanderbrook, Treasurer Peter J. Cascio and special committees. Reports of standing committees will also be heard, legislative by Floyd Oatman; transportation by Charles S. Burr; resolutions by Edward Kelly and public relations by Homer K. Dodge. Peter J. Cascio, executive committeeman for region I of the American Association of Nurserymen, will discuss "Activities of the A. A. N." to bring the session to a close.

The annual all-day educational program is planned for Tuesday starting at 10 a. m. It will be open to all member firms of the New England and Massachusetts associations and employees. Nonmembers will be admitted upon payment of a \$2 registration fee. The program will consist of talks by members of the New England Nurserymen's Association on practical nursery problems, with



QUALITY ORNAMENTALS IN LARGE ASSORTMENT

PRINCETON PRODUCTS ARE QUALITY PRODUCTS

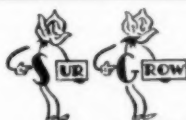
Shade and Ornamental Trees, Shrubs,
Vines, Evergreens, Hedge Plants, Ground
Covers, Azaleas, Broad-leaved Evergreens,
Magnolias, Pyracantha, Japanese Maples,
Multiflora Roses, Fruit Trees and many
scarce and hard-to-find items.

Send Your Want List.

PRINCETON NURSERIES

Phone: Princeton 1776

PRINCETON, N. J.



ROSE BUSHES

Here in Tyler some 50 Rose Growers are cooperating together to give you the finest of all field grown roses. We grow what we sell—We sell what we advertise. Write us for prices, Box 808, Tyler, Texas.

CO-OPERATIVE ROSE GROWERS

DOGWOOD SPECIALS

Pink-flowering Dogwood, 1½ to 2 ft., well branched, B.R.	Per 100 \$ 95.00
Pink-flowering Dogwood, 12 to 18 ins., well branched, B.R.	80.00
White Double-flowering Dogwood, 2 to 3 ft., well branched, B.R.	125.00
White Double-flowering Dogwood, 1½ to 2 ft., well branched, B.R.	100.00

CALIFORNIA PRIVET, 1-yr. The best we have ever grown. Reasonably priced. Write for quotation on grades desired, or see our representative, C. J. Hayden, Hotel La Salle, during the meeting of the Illinois State Nurserymen's Association, January 17, 18 and 19.

Free Packing for Cash with Order.

ATHENS NURSERY CO.
ATHENS, ALA.

Still Available

MAGNOLIA SOULANGEANA

4 to 5 and 5 to 6 ft.

3-yr., well branched, carrying dormant bloom buds
at

CHASE NURSERY CO.
CHASE, ALA.

CHINESE CHESTNUT TREES and SEED NUTS

Pure *Castanea mollissima* nuts and seedling trees from the same orchard containing the parent trees of the new U.S.D.A. varieties Nanking, Meiling and Kuling. No better strains available. Trees from 12 inches to 5 feet. Prices on request.

LEELAND FARMS

P. O. BOX 128

LEESBURG, GA.



**ORNAMENTALS
ROSES**

**CAMELLIAS
AZALEAS**

**DECIDUOUS FRUITS
CITRUS**

New Trade List available on request. See classified ad on Persimmons.

GLEN SAINT MARY

Nurseries Company

Dependable since 1882

GLEN SAINT MARY, FLORIDA

"True Varieties" Is Not a Boast... It's A HABIT!

ROSEBUSHES

Licensed Grower,
All-America
Introductions.

Refrigeration.

AVOID HEELYARD HAVOC.

ARP

NURSERY CO.

TYLER, TEXAS

GET YOURS FIELD-FRESH AND FREEZE-FREE.

PECAN TREES

WALNUT, FIG

PERSIMMON

Wholesale Catalog.

open discussion following each talk. Willard Bond, Bay State Nurseries, Inc., Abington, Mass., will be chairman and moderator for the day. Charles S. Burr, president of C. R. Burr & Co., Manchester, Conn., will tell "How to Avoid Waste in the Nursery"; Charles Godin, Adams Nurseries, Inc., Westfield, Mass., will answer the question "Is the Job Finished When the Order Is Taken?"; and after an intermission for luncheon Richard M. Wyman, Jr., Wyman's Framingham Nurseries, Framingham, Mass., will tell "What the Retail Landscape Nurseryman Expects When He Buys Nursery Stock"; Alfred Angel, Boulevard Nurseries, Newport, R. I., will take for his subject "A Wholesaler Answers Back," and a panel discussion on "What Responsibilities Does a Landscape Foreman Have in Carrying Out Jobs?" will be given by foremen from several nurseries, among them Raymond Hopkins, Peter Cascio Nursery, West Hartford, Conn., and Robert Kane, Wyman's Framingham Nurseries, Framingham, Mass.

At 10 o'clock Wednesday morning New England nurserymen will reconvene to hear further reports of standing committees, among them membership by E. D. Robinson; trade exhibits by Jack Shore; educational by Willard Bond, and public relations by Homer K. Dodge. Guest speaker for the morning program will be Luther L. Baumgartner, director of the biochemical laboratories of B. F. Goodrich Co., at Yonkers, N. Y., whose subject will be "Insure Survival of Your Transplants." James S. Wells, manager of Koster Nursery, Bridgeton, N. J., will discuss "Propagation Practices." Unfinished business and the introduction of new officers will be taken care of after luncheon.

VIRGINIA LANDSCAPE SHORT COURSE.

A landscape school for nurserymen and their employees will be held February 27 to March 10 at Virginia Polytechnic Institute, Blacksburg, sponsored by the horticultural department. Those planning to attend should write about reservations to A. C. Beecher, assistant horticulturist, Virginia agricultural extension service, Blacksburg. A registration fee of \$2.50 will be charged to cover the cost of materials used.

Subjects to be taught during the course will be landscape drafting, including lettering, landscape symbols, rendering plans and sketching; landscape design, its history, fundamen-

"LOOK TO LEGHORN'S FOR YOUR LINERS" —

We still have a few liners left in the 2-yr., T, sizes and up. Write for prices on these. We also have some nice upright yews in sizes 2 to 2½ ft., 2½ to 3 ft. and 3 to 3½ ft. Send for our complete list covering both these items.

LEGHORN'S EVERGREEN NURSERIES

GEER STREET

CROMWELL, CONN.

tal principles of composition and their application and design of landscape features; planting design, its principles and their application to small homes, public buildings and rural homes; preparation of planting plans and review of plant materials, engineering and construction details. The teaching staff will be composed of Prof. S. H. Byrne, Prof. A. G. Smith, Jr.; R. A. Jester, and A. C. Beecher.

HAVING twenty acres of land and 2,000 square feet of greenhouses, Harry Lingus, is starting the Greenview Nursery at Michigan City, Ind. The mailing address is Route 3, Box 308.

TWO nursery owners who are serving this year as officials of Rotary International are Charles G. Tennent, Tennent Nurseries, Asheville, N. C., and Vernon Burkhardt, Burkhardt Nurseries, Barnesville, O. Mr. Tennent is chairman of the nominating committee and is a former vice-president, district governor and committeeman of the Rotary International and a past president of the Asheville Rotary Club. Mr. Burkhardt is a district governor of the Rotary International and a past president of his local Rotary Club.

FIELD-GROWN EVERGREEN LINERS

2-year plants, well rooted and furnished with plenty of tops.

IRISH AND ASHFORD JUNIPER LINERS

	Each per 100	Each per 1000
8 to 12 ins.....	12½c	10c
12 to 15 ins.....	15c	12½c
15 to 18 ins.....	20c	17½c

DOUBLE-FLOWERING PEACHES Red, White, Pink

Well rooted and well branched.

	Each per 10	Each per 100
18 to 24 ins.....	17½c	15c
2 to 3 ft.....	20c	17½c
3 to 4 ft.....	25c	22½c

NANDINA LINERS

Once transplanted, stocky plants. Each 2 to 4 ins..... 5c
4 to 6 ins..... 7½c
Stock will be well packed and guaranteed to reach you in good condition. No packing charge.

NAUGHER NURSERY CHASE, ALA.



SEMME'S NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens.

Wholesale Catalog SEMME'S, ALA.

Old English BOXWOOD

(Wholesale Only)

SELLING OUT. Specimens 20 x 18 ins. and up; also very large specimens. No smaller stock left. Special discounts on carload or truckload orders. Prices on request. Inspection invited.

BOXWOOD GARDENS

Mrs. R. P. Royer

High Point, N. C.



SEMME'S, ALABAMA

Azaleas, Camellias, Gardenias
and a General Line of
Ornamental Nursery Stock
Lining-Out Stock Our Specialty
WHOLESALE ONLY

★ A NEW STAR ★ For All-winter Bloom The Outstanding CAMELLIA "Joseph Pfingstl"

This new seedling produces a very large bloom, about 5-inch diameter, in dark red, radiating scarlet and crimson. Blooming season between mid-October and mid-April. Very hardy, blooms last for days. One-year grafts or own-root, \$25.00 each. Order now. Plants available now.

PFINGSTL'S NURSERY

101 Willens Ave. Montgomery, Ala.

This Business of Ours

Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

PLANTS THAT CHANGE THEIR CHARACTER.

There are a good many plants that change their character as they grow to maturity or are influenced by changing environment or different cultural conditions.

We had a curious experience with the common English ivy, *Hedera helix*. This vine has the habit of changing not only its foliage forms but also its manner of growth when it matures, produces flowers and seeds. The plant reaches maturity only after it is quite old and has been growing on an old wall or tree quite a long time and has grown as far as it can possibly reach. Then it will usually send out short spurs of shrubby growth on which no adventitious roots are borne and on which the flowers are borne. The foliage changes from the usual star-shaped leaf to a more or less pointed ovate leaf, the change being sufficiently pronounced so that customers will not recognize it. On one occasion we rooted a batch of cuttings of this type of growth, potting them up for sale. About a year after the plants were planted in the ground they reverted to the more usual youthful form, but we had some difficulty convincing our customers that they were the right plants.

There are several plants that are shrubs or vines depending upon where they are planted. *Euonymus kiautschovicus* is one of these. Growing in the nursery or in border and foundation plantings it forms the usual bush and without indications of adventitious roots, but planted up tight against a brick wall it will actively climb up a quite high wall. As a bush I have never seen it reach higher than about eight feet; as a vine I have seen it go to twenty feet.

The behavior of *Elaeagnus pungens* is similar but less pronounced, as it is not likely to put out adventitious roots but forms a sort of springy tension in the shoots that press against the wall. Similarly, a wistaria pruned into trunked tree form is quite content to grow a shrubby head until one of the branches or twigs touches the ground or some physical support whereupon it will send out its usual long twining runners.

A great many of our coniferous

evergreen trees have three separate life and growth stages wherein their character changes quite pronouncedly. They have a juvenile form when they are young, compact, dwarfish plants; a mature form when they grow into a tall, shapely and symmetrical tree and then in old age they form a high-trunked tree with the top often open, gnarled and picturesque. Much of our trouble with foundation plantings, particularly during the first two decades of this century, came from the widespread use of juvenile forms of many of the world's forest trees. The juvenile forms were mistakenly used in place of truly dwarf types.

A notable example of the changing character of a single species of plants due to climatic change is the common red cedar, *Juniperus virginiana*. This plant has a notable range of hardness from the subarctic to the subtropical. In the far north it is a low sprawling plant, barely higher than the rocky terrain. As

it comes southward it grows into a tall narrow column of medium height. Here, in Maryland, and as you go farther south toward Florida it assumes a broader open character, some of the trees growing quite tall, perhaps fifty or sixty feet high and often with a spread of thirty feet or more.

My father has stated that much of Florida was at first landscaped backward. Instead of using the local wealth of plant life, northerners brought potted plants from home and greenhouses, usually of subtropical varieties. Instead of staying the subdued dwarfs of the unnatural conditions of the north, these soon grew up past the second-story windows when planted in a happier climate.

E. S. H.

THE HOLLY OSMANTHUS.

On Christmas day a large holly osmanthus by my father's porch was laden with tiny, waxy, fragrant, white

3300 *Philadelphus virginialis*,
1-yr. R.C., 18 to 24 ins., 3
branches or more. Fine mail-
order grade.
\$22.50 per 100;
\$175.00 per 1000.

3500 *Forsythia spectabilis*,
R.C., 12 to 18 ins.
\$5.00 per 100; \$40.00 per 1000.

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, PA.

CHINESE CHESTNUT TREES

BLIGHT-RESISTANT

Fine for Retail
Trade — Liners.

SUNNY RIDGE NURSERY
Swarthmore, Pa.

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

EVERGREENS

Seedlings and Transplants

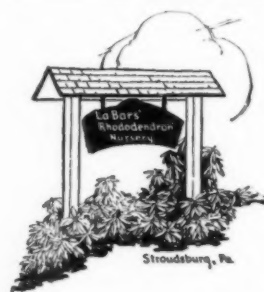
Spring, 1950

Write for price list.

SUNCREST EVERGREEN NURSERIES
JOHNSTOWN, PA.

The CHRYSANTHEMUM
CATALOG you cannot afford
to be without.

WONDERLAND NURSERIES
Ellerson, Va.



Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

W. - T. Smith Corporation
Telephone 2689 GENEVA, N. Y.

BEGINNING IN THE NURSERY BUSINESS

By J. J. Pinney


Booklet, 50¢ postpaid.

Order from

AMERICAN NURSERYMAN

343 S. Dearborn St.

Chicago 4, Ill.



EXTRA! EXTRA!

GARDEN SUPPLY DEALERS TO REAP
GREATER **VIGORO*** SALES AND
PROFITS THAN EVER BEFORE!

LAWNS GET EXTRA BENEFITS
FROM **NEW PROCESS VIGORO**!

New Process **VIGORO***

Best gardening news of year ... say dealers

Goes further than ever — nourishes plants longer—yet supplies a balanced diet for greener, healthier, more complete growth!

For years Vigoro has been America's best known plant food . . . America's fastest-selling plant food. Now millions of gardeners and homeowners will regard Vigoro even more highly.

Tell your customers about **New Process**

Vigoro and the extra benefits lawns will get from its application. Display it prominently. You'll make greater sales and profits—have more satisfied customers because of the improved results Vigoro helps produce.

SWIFT & COMPANY

Plant Food Division

U. S. Yards

Chicago 9, Ill.

***VIGORO** is the trade-mark for Swift & Company's complete, balanced plant food.



2 MORE GREAT GARDENING AIDS

End-o-Weed

... destroys over 100 different kinds of weeds.



End-o-Pest

... provides all the pest protection most gardens need!



flowers. Of course, it has been a mild season here on the Eastern Shore of Maryland, but it is good to have a plant in bloom at Christmas time, and this early winter-flowering plant will often flower then.

I have always thought this handsome broad-leaved evergreen, *Osmanthus ilicifolius*, a much neglected shrub. It has been neglected for two reasons. First, because it looks like holly, people think of it as a substitute, and, unfortunately, it has black berries. The other reason for its neglect is that it propagates a little slowly and it is not rapid in growth.

If it were not for the American holly this plant would be much more widely planted, for it has many virtues in its own right. The foliage is a dark handsome green, the leaves are both entire and spiny on the same plant and, except that it is not crinkly, it resembles more the English holly than the American holly. It is slow-growing and makes an ideal compact shrub for foundation planting and takes to pruning. I know of a couple holly osmanthus that are at least 30 years old and are two 10-foot mounds.

The plant's greatest virtue, in addition to its attractiveness, is its hardiness, for, while it has the habit of growing and flowering in late fall, it is considerably harder than the



20 MILLION TREES A YEAR

The above picture shows a section of Musser Nursery No. 2. Write for complete catalog on Evergreen seedlings and transplants, also Hardwood seedlings.

MUSSER FORESTS, Inc. INDIANA, PENNA.

LINING-OUT STOCK

If you have not received a copy of our Fall, 1949, price list and are interested, send for same.

THOMAS B. MEEHAN CO., Inc.

Dresher, Pa.

HEMLOCK

**Rhododendron — Kalmia
Azalea**

CURTIS NURSERIES

CALLICOON, N. Y.

LINING-OUT STOCK OUR SPECIALTY Ready for Field Planting BOYD'S 1950 PLANT GUIDE Shade Tree Liners

We are pleased to give you what we think is a darn good list of items to include in your Spring, 1950, plantings. Our lining-out stock will compare first-class, without a doubt, with some of the best stock to be had anywhere. So—please place your orders now and don't be disappointed later on in the season. Stock quoted F.O.B. McMinnville, Tennessee. (5 per cent discount on all orders received in January, with cash enclosed.)

LINING-OUT STOCK Shade Tree Seedlings

250 takes a 1000 rate. Add 25 per cent extra for orders smaller than 250 of each variety.

	Per 1000		
	4 to 6 ins.	6 to 12 ins.	12 to 18 ins.
ALBIZZIA, Mimosa Tree.....	\$35.00	\$50.00	\$65.00
ACER, Silver Maple.....	7.50	10.00	12.00
ACER RUBRUM, Scarlet Maple.....	12.00	15.00	20.00
ACER, Sugar Maple.....	12.00	15.00	20.00
BETULA, River Birch.....	12.00	15.00	20.00
CERCUS, Redbud.....	10.00	15.00	20.00
CORNUS, White-flowering Dogwood.....	20.00	30.00	40.00
CLADRASTIS, Yellow-wood.....	25.00	35.00	45.00
DIOSPYROS, American Persimmon.....	10.00	15.00	25.00
FAGUS, American Beech.....	7.50	10.00	15.00
FRAXINUS, American White Ash.....	7.50	10.00	15.00
FRAXINUS, American Green Ash.....	7.50	10.00	15.00
GINKGO BILOBA.....	90.00	115.00	....
GLEDITSIA, Common Honey Locust.....	10.00	12.00	15.00
GYMNOCLADUS, Kentucky Coffee Tree.....	75.00	90.00	115.00
HICORIA, Shellbark.....	40.00	50.00	75.00
HICORIA, Shagbark.....	40.00	50.00	75.00
JUGLANS, White Walnut.....	30.00	40.00	50.00
JUGLANS, Black Walnut.....	17.50	20.00	30.00
LIQUIDAMBAR, Sweet Gum.....	17.50	20.00	25.00
LIRIODENDRON, Tulip Poplar.....	7.50	10.00	15.00
MORUS, Russian Mulberry.....	7.50	10.00	15.00
NYSSA, Sour Gum.....	25.00	35.00	45.00
OXYDENDRUM, Sourwood.....	12.50	15.00	20.00
PLATANUS, American Sycamore.....	12.50	15.00	20.00
POPULUS, Chinese Lombardy.....	20.00	25.00	35.00
POPULUS, Lombardy Poplar.....	15.00	20.00	25.00
QUERCUS, White, Willow or Red Oak.....	20.00	30.00	40.00
ROBINIA, Black Locust.....	4.00	6.00	10.00
SALIX, Golden Weeping Willow.....	12.50	15.00	20.00
SALIX, Babylon Willow.....	12.50	15.00	20.00
TILIA, American Linden.....	20.00	30.00	40.00
ULMUS, American Elm.....	5.00	7.00	10.00
ULMUS, Chinese Elm.....	8.00	10.00	15.00

Write for our complete catalog.

Boyd
NURSERY COMPANY

P. O. Drawer 71, McMinnville, TENN.

plants usually associated with this habit, such as nandina and wax privet. I believe it is harder than boxwood also and am sure it would grow in southern Connecticut. Here our criterion for hardiness is to recall how the plant came through the winter of 1933 and 1934. The osmanthus came through better than most of the plants that we call "plants of the upper south" and showed no more damage than did American holly, abelia or California privet.

The plant thrives well either in the sun or shade and likes soil with plenty of humus without being critical, as are rhododendrons and azaleas.

Propagation is best by cuttings, although slow. I recall in the days before hormones that a batch of cuttings in peat and sand, the best medium for them, stayed in the frame a full year before rooting well, yet eventually gave almost 100 per cent stand. The hormones shorten this considerably, but peat and sand are still the best medium. To grow the plants for sale is still a lengthy proposition, for they belong, according to time required, with the dwarf yews. The finished plant, however, is well worth the trouble. It is our experience that holly osmanthus is one plant of which there is never an oversupply.

E. S. H.

COVER ILLUSTRATION.

Picea Glauca Conica.

Sometimes called the dwarf Alberta spruce, *Picea glauca conica* is quite unlike other spruces in shape and appearance. The tree is narrow and conical in form, presenting a solid surface of dense foliage. The leaves are soft grass-green, about one-half inch in length, fine, slender and flexible, and spread radially from the twigs. The short, closely set, twiggy branches carry a thick growth of this attractive foliage.

Quite hardy in the north, the tree is tender in one respect. If exposed to the south, it may be burned by winter sun and winds. Providing a winter screen on the south side will prevent such sunscald.

Exceedingly slow-growing, the dwarf Alberta spruce is useful in the less exposed places in the rock garden, on terraces and in formal effects. It may be only two and one-half feet high or less when 10 years old and consequently is a costly nursery item.

This dwarf spruce has been propagated from cuttings taken from a single small tree discovered in Alberta in 1904 by J. G. Jack and sent by him to the Arnold Arboretum

ORDER NOW

CHERRY, Montmorency, Early Richmond.		Per 100	Per 1000
2-yr.-old.			
1-in. up, 5 ft.....	\$85.00	....	....
11/16 to 1-in., 4 1/2 ft.	75.00	....	....
9/16 to 11/16-in., 4 1/2 ft.	65.00	....	....
7/16 to 9/16-in., 4 ft.	55.00	....	....
1-yr.-old.			
9/16 to 11/16-in., 3 ft.	60.00	....	....
7/16 to 9/16-in., 3 ft.	45.00	....	....
5/16 to 7/16-in., 2 1/2 ft.	30.00	....	....
CHINESE ELM, seedlings,			
2-yr.-old.			
9 to 12 ins.....	\$ 6.50	....	....
12 to 18 ins.....	11.00	....	....
18 to 24 ins.....	15.00	....	....
2 to 3 ft.....	3.00	....	....
3 to 4 ft.....	6.50	....	....
4 to 5 ft.....	9.50	....	....
5 to 6 ft.....	15.00	....	....
PRIVET, AMUR RIVER NORTH.			
12 to 18 ins., 2 to 3 canes.....	4.50	....	....
12 to 18 ins., 3 to 4 canes.....	5.50	....	....
PRIVET, THOMPSON.			
18 to 24 ins., 4 to 6 canes, 2-yr..	7.50	....	....
18 to 24 ins., 6 canes up, 2-yr..	10.00	....	....
POPLARS, LOMBARDY.			
Branched, 5 to 6 ft.....	15.00	....	....
Branched, 4 to 5 ft.....	11.00	....	....
Whips, 5 to 6 ft.....	10.00	....	....
Whips, 4 to 5 ft.....	7.50	....	....
Whips, 3 to 4 ft.....	5.00	....	....
Whips, 2 to 3 ft.....	4.00	....	....
PURPLE LEAF PLUM, Newport.			
5 to 6 ft.....	90.00	....	....
4 to 5 ft.....	75.00	....	....
3 to 4 ft.....	60.00	....	....
FLOWERING PEACH, Double red.			
5 to 6 ft.....	65.00	....	....
4 to 5 ft.....	55.00	....	....
3 to 4 ft.....	45.00	....	....
THUJA ORIENTALIS, Chinese Arborvitae, 2-yr.			
9 to 12 ins., sdgls.....	4.00	30.00	....
PINUS NIGRA, Austrian Pine, 1-yr.			
2 to 4 ins., sdgls.....	4.00	35.00	....
JUNIPERUS VIRGINIANA, Platte River, 1-yr.			
2 to 4 ins., sdgls.....	2.50	20.00	....
4 to 5 ins., sdgls.....	3.50	30.00	....
30 at 100 rate; 300 at 1000 rate.			
Packing FREE.			

M. MEYER'S NURSERY

5439 S. Hydraulic, R. 5 WICHITA, KAN.

BOOKS ON PROPAGATION

Propagation of Plants.....	\$4.00
By M. G. Kains and L. M. McQuesten	
How to Increase Plants.....	\$3.00
By A. C. Hottes	
Nursery Manual.....	\$5.00
By L. H. Bailey	
Propagation of Horticultural Plants.....	\$3.25
By G. Adriance and F. R. Brison	

Order from

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.



NORTHERN GROWN PLANTS

FRUIT TREES • SMALL FRUITS • SHRUBS • ROSES • ORNAMENTALS

APPLE - PEACH - PEAR - PLUM

Write for Prices

RED RASPBERRIES

	Per 100	Per 1000
CHIEF		
Transplants	\$7.00	\$60.00
1/4-in. cal. and up	6.50	55.00
No. 1, 3/16-in.	5.50	45.00
INDIAN SUMMER		
Transplants	8.00	70.00
1/4-in. cal. and up	7.50	65.00
No. 1, 3/16-in.	6.50	55.00
LATHAM		
Transplants	7.50	65.00
1/4-in. cal. and up	7.00	60.00
No. 1, 3/16-in.	6.00	50.00
SUNRISE		
Transplants	7.00	65.00
1/4-in. cal. and up	6.50	55.00
No. 1, 3/16-in.	5.50	45.00

BLACK RASPBERRIES

	Per 100	Per 1000
CUMBERLAND		
Transplants	\$8.00	\$70.00
No. 1 tips	4.50	35.00
NEW LOGAN		
No. 1, tips	4.50	35.00

APPLE SEEDLINGS

Washington-grown from Minnesota Seeds.
Write for Prices.

BLACKERRIES — BOYSENBERRIES

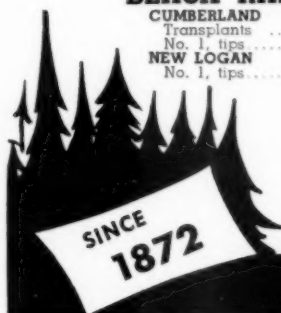
	Per 100	Per 1000
ALFRED , No. 1, R.C.	\$5.00	\$40.00
BLOWER , No. 1, R.C.	5.00	40.00
ELDORADO , No. 1, R.C.	5.00	40.00
BOYSENBERRY , Thornless, No. 1, tips	5.50	45.00
YOUNGBERRY , No. 1, tips	5.50	45.00

CURRANTS

	Per 100	Per 1000
RED LAKE		
3-yr., No. 1	\$18.00	\$160.00
2-yr., No. 1	16.00	140.00
1-yr., No. 1	12.00	100.00

RHUBARB

	Per 100	Per 1000
CANADA RED		
No. 1, div.	\$40.00	\$350.00
MacDONALD		
No. 1, div.	30.00	250.00
RUBY RED		
No. 1, div.	25.00	150.00
VALENTINE		
No. 1, div.	35.00	300.00



Andrews

NURSERY
COMPANY

FARIBAULT

MINNESOTA

from Lake Laggan, in the Canadian Rockies. The annual growth is said to be only one-half to one inch, so that many years are required to produce a sizable tree in the nursery.

NURSEYMAN'S DAUGHTER WEDS PROFESSOR'S SON.

Gladys Gene Mathews, daughter of Mr. and Mrs. Irving Mathews, of Mathews Nursery & Seed Co., Gary, Ind., was married December 28 to Donald N. O'Rourke, son of Prof. and Mrs. F. L. O'Rourke, East Lansing, Mich. Professor O'Rourke is associated with the department of horticulture at Michigan State College and is in charge of the course in nursery and landscape management.

The couple is at home at Scottsville, Mich., where Mr. O'Rourke is teaching agriculture to veterans of Mason county. Mrs. O'Rourke taught home economics at the Kingwood School for Girls of Cranbrook, Bloomfield Hills, Mich.

Providing the background for the ceremony was a 28-foot Christmas tree presented to the Forty-third Avenue Presbyterian church by the Mathews family, which it had used as a living Christmas tree sixteen years ago.

SPRING IS COMING!

Time flies after January first and Spring shipping time always comes early. To avoid disappointment and to be sure of the best, place your order NOW for

VIRGINIA SEASIDE ROSES

Our roses are strong, vigorous and extra well rooted, sure to grow and give your customers complete satisfaction. Our list is most complete and includes many patent varieties. Roses are scarce; send us your order TODAY.

ILGENFRITZ NURSERIES, Inc.

THE MONROE NURSERY

MONROE, MICH.

TAXUS MEDIA HALLORAN

The past winter proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

MAXWELL, BOWDEN & RICE

Incorporated
Wholesale Nurseries
GENEVA, NEW YORK
Phone 2974

Again

**We offer for Spring, 1950
50,000 Juniperus Grafts**
(Grafted on Red Cedar)

ORDER NOW

before certain kinds are sold out.

It's quality that counts.

Per 100 Per 1000

Juniperus chinensis

columnaris glauca	\$47.50	\$450.00
keteleeri	47.50	450.00
compacta	47.50	450.00
mascula	47.50	450.00
pyramidalis	47.50	450.00

Juniperus virginiana

burki	47.50	450.00
canaerti	47.50	450.00
canaerti compacta	47.50	450.00
elegantissima Lee	47.50	450.00
glauca	47.50	450.00
schottii	47.50	450.00
pyramidalis hillii	47.50	450.00

Juniperus squamata

meyeri	47.50	450.00
--------	-------	--------

Biota aurea nana

compacta	45.00	425.00
----------	-------	--------

Biota

conspicua	45.00	425.00
-----------	-------	--------

Picea pungens

moerheimii	95.00
------------	-------	------

Acer polymorphum

ashi-beni (the best red)	90.00
--------------------------	-------	------

Out of Pots and Beds

2000 Juniper, Pfitzer,	Per 100	Per 1000
8 to 10 ins., 1-yr.,		
2 1/2-in. pots	\$27.50	\$250.00
1000 Juniper, Pfitzer,		
8 to 12 ins., strong,		
out of beds	42.50	400.00
1000 Taxus hicksi, 12 to		
18 ins., strong,		
3-yr. beds	45.00	450.00
1000 Arborvitae, pyra-		
midalis, 6 to 8 ins.,		
2 1/2-in. pots, out		
of frame	25.00	....

**PAUL OFFENBERG
NURSERIES**

COLUMBUS 9, OHIO

OBITUARY

W. W. Wilmore.

William W. Wilmore, pioneer Colorado horticulturist and founder of W. W. Wilmore Nurseries, Denver, died January 1 after a lingering illness of many months. He was 88 years old.

The youngest in a family of eight, Mr. Wilmore was born at Laurel, Md., in 1861. The family moved to Colorado in 1873, locating in the Valverde area of Denver, where it followed the vocation of truck gardening.

When he was 23, Mr. Wilmore purchased ten acres of land at West Thirty-eighth and Wadsworth avenues, where the nurseries are still located, and started growing and hybridizing dahlias as a hobby. Gradually this hobby developed into a business, called W. W. Wilmore Dahlia Farm & Nursery, becoming one of the best known dahlia farms in the country. Mr. Wilmore was regarded as an authority on dahlias for more than fifty years. He issued his first dahlia catalog in 1893, and he was generally credited with popularizing the flower.

With the aid of his sons, Charles and Scott, Mr. Wilmore formed his nursery business. He retired in 1927, and Scott now heads W. W. Wilmore Nurseries and Charles heads the Green Bowers Nurseries near by. An elder son, W. W. Wilmore, Jr., was killed at St. Mihiel in World War I.

Mr. Wilmore took an active part in the development of the Wheat Ridge section of Denver as a businessman, banker and civic leader. He was a life member of the Society of American Florists and of the Colorado State Grange. His firm is a member of the American Association of Nurserymen and the Colorado Nurserymen's Association.

Surviving are his widow, Mrs. Josephine Ely Wilmore, whom he married sixty-three years ago; two sons, Scott and Charles; two daughters, Mrs. R. T. Davis and Mrs. Waldo Von Holdt; six grandchildren, and six great-grandchildren.

Ross G. Minich.

Ross G. Minich, proprietor of R. G. Minich Nurseries, Overland Park, Kan., died December 24 at his home. He was 64 years old. A native of Missouri, Mr. Minich had lived at Kansas City for about thirty years.

Survivors are his widow, Mrs.

PFITZER JUNIPER LINERS

5 to 8 ins., in plant bands for field planting.

Will outperform much larger bare-root plants and cost you less money.

Book your order
for spring.

Immediate or later delivery if wanted.

We winter everything
in the greenhouse.

300 or more,
\$13.50 per 100.

Less than 300,
\$15.00 per 100.

Free samples on request.

McININCH GREENHOUSES
ST. JOSEPH, MO.

HEMLOCKS

Specimen stock transplanted 4 and 5 times. Sheared and open styles. In large truckload lots. Select them yourselves. 3, 3 1/2, 4, 4 1/2 and 5-ft. sizes. We grow the finest. Write for full particulars. We are taking spring orders now. Discounts on quantity orders.

We have *Taxus hicksi* and *Taxus capitata*. Also, a few *Ball Carriers* in stock. Saves hard lifting—fewer men needed.

SUNNYVIEW NURSERIES

George Colmorgen, Prop.
Rt. 84, Lake Co. PERRY, OHIO

EVERGREENS SHRUBS SHADE TREES POPLARS

Write for surplus list.

THE HENRY NURSERIES
Ingels Bros.
HENRY, ILL.

TUBEROUS BEGONIAS

by Worth Brown

Covers propagation by seed, vegetative propagation, growing from tubers, pot culture, lath houses, care of dormant tubers, pests and diseases. 128 p., 105 illus. (1948). \$2.75, postpaid.

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

Sprinkler Sales Make Profits for Nurseries



And nursery sales drop lawn sprinkler prospects in your lap. Think how many you could have sold last year if you had been a dealer!

You don't have to be an expert; we furnish engineering service FREE. Our systems come in three price ranges, can be sold on easy FHA terms through banks. They're years ahead in engineering, offer automatic features and other conveniences that clinch sales.

Dealership Plan for Nurseries and descriptive literature FREE on request. Write today for both.

TEXAS LAWN SPRINKLER CO., INC.

5422 RED FIELD STREET

LAKE SIDE-3149

DALLAS 9, TEXAS

Edith C. Minich; a son, Charles Robert Minich; two sisters; a brother, and a grandson.

W. L. Thompson.

W. L. Thompson, head of the nursery and landscape department of Muzingo Flower Farm, Tulsa, Okla., died December 23. He was stricken with a heart attack while viewing the Christmas decorations at the Muzingo Boston flower shop.

Mr. Thompson had been employed at Muzingo Flower Farm for the past four years. Before that he worked as a landscape architect in various parts of the country, including Tennessee, where he worked on the Ford Motor Co. project.

Surviving are his widow, several children and a brother, all of Lonoke, Ark., where Mr. Thompson owned Thompson's Nursery.

JUST starting in the nursery business is W. Albert Docking, 407 Market street, Bangor, Pa.

HAVING formerly leased land from Swain Nelson Co., at 2320 Glenview road, Glenview, Ill., G. A. Gundstrom has been doing business since December 15 as Gundstrom Co., Inc., on property purchased at 2001 Waukegan road, Glenview.

NORTHERN-GROWN EVERGREENS

SPRUCE - JUNIPER

TAXUS - ARBORVITAE

Write for list.

BROWN DEER NURSERIES

P. O. Box 1747

Milwaukee 1, Wis.

ORNAMENTALS

TREES SHRUBS

EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois

LAKE'S

SHENANDOAH NURSERIES

Shenandoah, Iowa.

Wholesale growers of a fine assortment of

GENERAL NURSERY STOCK

Your inquiries will be appreciated.

FOR PROMPT ACTION

Send us your Surplus List.

GROWERS EXCHANGE, Inc.

Brightmoor Sta., DETROIT 23, MICH.

We wish to purchase . .

Evergreens, Fruit Trees, Shrubs, etc.

Send your surplus list to
THE PONTIAC NURSERY CO. Romeo, Mich.

EVERGREENS

PYRAMIDAL ARBORVITAE,
4 to 5 ft.

An excellent supply of this
most popular item.

GRAFTED JUNIPERS, 4 to 5 ft.
Juniperus virginiana canaerti
Juniperus virginiana glauca
Juniperus virginiana burki

Sheared, well grown.

We have a general line of
evergreens.

Write for Quotations.

THE BERRYHILL NURSERY CO.
P. O. BOX 696, SPRINGFIELD, O.

Northern-grown Stock

Send
for
Price
List.

J. V. BAILEY NURSERIES
St. Paul 6, Minn.

SPECIMEN
LANDSCAPE MATERIALS

Our Specialty

TAXUS

W. A. NATORP CO.
Cincinnati 29, Ohio

Per 100
Kolkwitzia, T, 9 to 12 ins. \$12.00
Kolkwitzia, S, 6 to 9 ins. 9.00
Rhus cotinus, S, 3 to 6 ins. 6.00
Rhodotypos, S, 3 to 6 ins. 3.50

NEWPORT NURSERY CO.
NEWPORT, MICH.



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.

ROTOGRAVURE FEATURES MUSSEY CHRISTMAS TREES.

A 2-page spread in the rotogravure section of the December 18 edition of the Pittsburgh Press depicted the growing, cutting and shipping of Christmas trees at Musser Forests, Inc., Indiana, Pa. According to the article, Fred Musser has over 19,000,000 Christmas trees and is the nation's largest grower. In December about 200,000 trees were shipped to eastern markets.

The main nursery of Musser Forests, Inc., is located on a hilltop near Indiana, Pa., where ten varieties of spruces and pines are grown. Seeds from cones gathered in forests in this country and Europe germinate two years after planting and are transplanted in beds, 100,000 seedlings to the bed. In spring, when the biggest job is transplanting, the firm employs about 150 workers. Seedlings are fastened to a planting board by small wire rings, a shallow trench is dug to receive the roots and the seedlings are inserted, fifty to a row. After the soil is tamped around the roots, the planting board is removed.

After transplanting the seedlings are kept free from weeds and are watered by a sprinkler system supplied with water from two reservoirs which Mr. Musser had built. Six years after transplanting the seedlings are ready to be cut and used as Christmas trees.

Cutting of pines starts in October, since they hold their needles longer, but spruces are cut much later, as they shed their needles in several weeks. Extra men are employed for the Christmas rush, to cut and tie the trees in bundles of the same size and species. Trees are shipped by train, truck and trailer to many sections of the country, and the average wholesale price is \$1 each.

Those trees not suitable for cutting as Christmas trees are saved for timber. A 50-acre tract of seedlings will grow into about \$15,000 worth of lumber in twenty-five years.

DONATES ROSES TO CITY FOR BEAUTIFICATION.

An extensive beautification and cleanup campaign has been launched at Marianna, Fla., by civic and business leaders as a result of an offer by Charles O. Reiff, Chipola Nurseries, Marianna, made at a meeting of the local Rotary Club, to donate 1,000 rosebushes to a city-wide beautification program. Members of the planning committee, among whom are Mrs. Reiff, recently discussed

SPECIAL—

Entire planting of Hicksi Yew

60	24 to 30 ins., B&B
290	18 to 24 ins., B&B
220	12 to 18 ins., B&B
400	9 to 12 ins., TT
350	6 to 9 ins., TT
200	6 to 9 ins., T

All heavy, first-class plants. Will make an attractive price on the entire lot.

Write for complete surplus list.

WHITE ELM NURSERY CO.

HARTLAND, WIS.

Let SHERMAN'S supply
your needs in...

Apple Trees
Plum Trees
Cherries
Small Fruits
Ornamental Shrubs
Shade Trees
Phlox
Roses
Perennials

Write for quantity prices on the above.

SHERMAN NURSERY CO.
CHARLES CITY, IOWA

VIBURNUM BURKWOODI

New—Fragrant—Hardy
Pinkish-white flowers in May
Heavy pot-grown stock for lining
out. Spring, 1950, delivery.

Per 100 Per 1000
2 1/2-in. bands \$27.50 \$250.00
F.O.B. Dayton, Ohio

No charge for packing if check
accompanies order.

THE SIEBENTHALER COMPANY

3001 Catalpa Drive
DAYTON 5, OHIO

THORNLESS HONEY LOCUST

	Per 10	Per 100
6 to 8 ft.	\$15.00	\$135.00
8 to 10 ft.	17.50	150.00
1 1/4 to 1 1/2-in. cal.	22.50	200.00

HACKBERRY, OCCIDENTALIS

6 to 8 ft.	12.50	100.00
8 to 10 ft.	15.00	135.00
1 1/4 to 1 1/2-in. cal.	20.00	175.00

Free packing. Cash, please.

FOREST HILLS NURSERY
3736 HIGHLAND DR.
SALT LAKE CITY 6, UTAH

BURTON'S
HEADQUARTERS FOR
EVERGREEN GRAFTS, TRANSPLANTED
EVERGREENS, SHRUB LINERS.
RARE ITEMS YOU DO NOT
FIND IN MOST LISTS! Write!
HILLTOP NURSERIES
CASHTOWN, OHIO

SCARFF'S Nursery



Headquarters for Small Fruit Plants
RED, BLACK and PURPLE RASPBERRIES
BLACKBERRIES—BOYSENBERRIES—BLUEBERRIES
CURRANTS—GOOSEBERRIES—GRAPEVINES
NEW VALENTINE ALL-RED RHUBARB
PARADISE ASPARAGUS—VICTORIA RHUBARB

ORNAMENTAL SHRUBS

Here are a few Special Items

Buddleia (in variety), 2 to 3 ft.	Magnolia Soulangeana Nigra
Hamamelis Vernalis, 4 to 5 ft.	Moss Balls, 3 to 4, 4 to 5 ft.
Prunus Tomentosa, 3 to 4 ft.	LINING-OUT STOCK
Spiraea Prunifolia, 3 to 4 ft.	Calycanthus Floridus,
Spiraea Vanhouttei, 2 to 3,	S, 6 to 9, 9 to 12 ins.
3 to 4, 4 to 4 1/2 ft.	Kolkwitzia Amabilis,
	T, 9 to 12, 12 to 15 ins.
	Rhus Cotinus, S, 6 to 9 ins.

FRUIT TREES

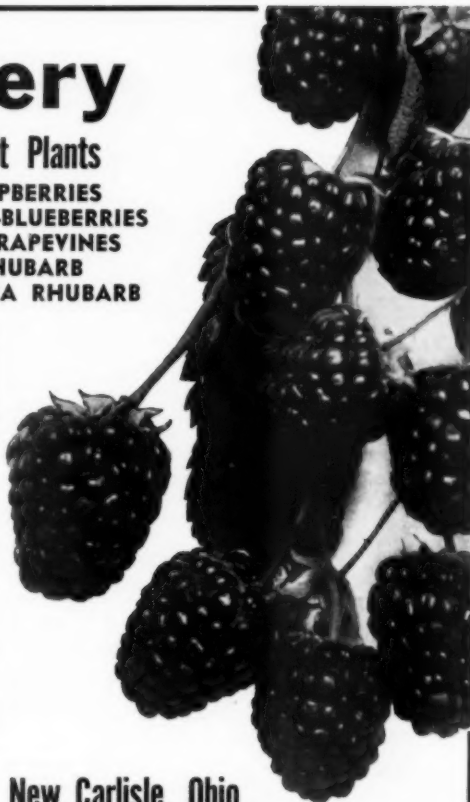
Well Grown—Heavily Rooted

	Per 100	
	11/16-in.	9/16-in.
Plum, 2-yr. (assorted varieties).....	\$60.00	\$45.00
Sweet Cherry, 1-yr. (assorted varieties)	75.00	60.00
Pear, 2-yr. (assorted varieties).....	50.00	40.00
		7/16-in.
		\$35.00

Send for Complete Trade List.

W. N. SCARFF'S SONS

New Carlisle, Ohio



planting possibilities and made a tour of the city to select tentative sites for the rose plantings. The city government will provide the labor to make the plantings, and Gus Purvis, local nurseryman, will supervise it. Local producers will supply the necessary fertilizer.

MOWRY RESIGNS IN FLORIDA.

Announcement that the application for retirement of Harold Mowry, director of the Florida agricultural experiment stations, has been approved by the state board of control has been made by Dr. J. Hillis Miller, president of the University of Florida. The retirement will become effective January 31. Mr. Mowry joined the experiment station staff in 1922 as assistant horticulturist and rose through various positions to be director in 1943. Mr. Mowry is credited with the initial findings as to the value and need for zinc for plant growth on mineral soils of Florida.

HAVING been associated with the Fillmore County Nursery, Canton, Minn., for the past three and a half years, Ralph Kneesern opened the Harmony-Decorah Nursery and Landscape Service at Harmony, Minn., and Decorah, Ia. in December.

EUONYMUS VEGETUS

2 1/4-in. pots

\$20.00 per 10

\$15.00 per 100

Trade list on request.

THE COTTAGE GARDENS

N.I.W. Kriek
LANSING 15, MICH.

WELLER'S PERENNIALS

With That Wonderful Root System
 Headquarters for
HARDY MUMS AND PHLOX.
 Ask for our Perennial Catalog.
WELLER NURSERIES CO., Inc.
 Leading Perennial Growers
HOLLAND, MICH.

50,000 DAHLIA ROOTS

We grow many acres of standard cut flower varieties for the trade.

Write today for wholesale price list.

PAYNE DAHLIA FARMS
ROUTE 5 KANSAS CITY 3, KAN.

WE HAVE IN QUANTITY

Apple, 2 and 3-yr.
 Pear, 2 and 3-yr.
 Cherry, 1 and 2-yr.
 Plum, 1 and 2-yr.
 Apricot, 1 and 2-yr.
 Peach, 1-yr.

Thurlo Weeping Willow,
 5 to 6 ft., up to 2-in.

Lombardy Poplar, 5 to 6 ft., up to 2-in.

Arborvitae, Pyramidal; Juniperus columnaris, glauca, keteleeri, Hill's Dundee, up to 3 1/2 to 4 ft. Pfitzer Juniper, 15 to 18 and 18 to 24 ins. Austrian and Scotch Pine, heavily sheared, 4 to 5, 5 to 6 and 6 to 7 ft.

C. M. HOBBS & SONS, Inc.

Phone: Indianapolis, Belmont 1812
BRIDGEPORT, IND.

GLADIOLI

will pay dividends at the nursery in the sale of bouquets to visitors, and the flowers bring in visitors.

1000 mixed, flowering-size bulbs, 12 or more colors, our collection "N", \$16.50.

Post card brings catalog.

VENNARD'S NURSERY
BOX 394-N SIOUX CITY, IOWA

AMERICA'S BEST SOURCE
FOR

HARDY PLANTS

WRITE FOR
 TRADE LIST

MENTOR,
 OHIO

Wayside



Gardens

Beautiful NATIVE RED CEDARS

	Per 1000
5 to 10 ins.	\$20.00
10 to 15 ins.	35.00
	Per 100
15 to 24 ins.	\$ 7.50
2 to 3 ft.	12.50
3 to 4 ft.	17.50

APPLE and PEACH TREES

	Per 100
2 to 3 ft.	\$ 8.00
3 to 4 ft.	12.00
4 to 5 ft., while they last.	20.00

APPLE TREES

	Per 100
5 to 6 ft., while they last.	\$30.00

GRAPEVINES

	Per 1000
Concord, 2-yr., No. 1	\$40.00
Fredonia, 2-yr., No. 1	50.00

Also other bargains.

Will not be able to supply demand again this season. First come, first served.

Write for our new, very low prices on nursery stock. Big reductions.

ROLLERS NURSERY

Phone: 661 ROGERS, ARK.

QUALITY STOCK

In Good Quantity

Excelsa Arborvitae, Each	
24 to 30 ins.	\$1.25
30 to 36 ins.	1.50
Baker Arborvitae,	
24 to 30 ins.	1.30
30 to 36 ins.	1.50
Spiny Greek Juniper,	
15 to 18 ins.	1.25

Write for list of other stock.

See our classified ads on Hydrangeas, Chinese Elms and Quality Evergreen Liners.

VERHALEN NURSERY CO.
SCOTTSVILLE, TEXAS
Your Profits Grow in Verhalen Plants.

HEAVY 2-YR. SHRUBS FRUIT TREES

SPECIMEN EVERGREENS

LINING-OUT STOCK

SNEED NURSERY COMPANY

P. O. Box 798
Oklahoma City 1, Okla.



Wholesale growers of the best
Ornamental Evergreens,
Deciduous Trees
Shrubs and Roses
Write for our current trade list.

THE KALLAY BROTHERS CO.
Painesville, Ohio

ROSES BY AIR TO PHILIPPINES.

Orders are received from all corners of the globe in larger quantities than ever before, thanks to the fast transportation of today, says Gerald K. Klyn, rose grower at Mentor, O. Before air express was possible it would take many weeks for plants to reach distant places, and then most would arrive in bad condition.

The love for roses apparently was never more expressed by a rose lover in the Philippines than by Mrs. Pacita M. Socorro, who imports some roses every year. But Mr. Klyn, who has been growing and shipping roses for thirty years, was greatly surprised when this same lady placed an order for some 500 roses to be shipped by air express. The shipping charges would amount to between \$800 and \$900 for one box weighing about 500 pounds. But the lady wanted the roses regardless, saying, "When shipped by air express I know they will arrive in good condition" and "The joy I will derive from their flowers will compensate me greatly for the expense incurred."

LONG ISLAND INSTITUTE STARTS EXPANSION.

H. B. Knapp, director of the Long Island Agricultural and Technical Institute, Farmingdale, has announced that the institute's 3-year expansion program is under way. The project will combine the industrial-technical facilities with those of agricultural and ornamental horticulture.

The two new buildings on which construction has begun will house shops, laboratories, library, administrative offices, an auditorium-gymnasium and a heating system. About forty additional acres have been purchased by the institute to be used for parking facilities, playing fields and lawn areas.

ON MINNESOTA STAFF.

Two recent additions to the horticulture staff at the University of Minnesota are Richard Widmer, instructor in horticulture, and Orrin C. Turnquist, extension horticulturist.

Mr. Widmer is a native of New Jersey and holds B.S. and M.S. degrees from Rutgers University. In that state he had experience as a soil analyst and victory garden consultant, field supervisor and greenhouse section foreman. He assists with teaching and research in the floriculture section of the division of horti-



ROSES

2-year, Budded

For Forcing and Landscaping

WRAPPED—WATERPROOF
PAPER AND COLORED LABELS
FIVE CENTS ADDITIONAL

3-day Truck Service to Points East.

500 Lots and Over

No. 1, 40c—No. 1½, 35c—No. 2, 25c

100 to 500 Lots

No. 1, 45c—No. 1½, 35c—No. 2, 30c

Orders for less than 100 roses

No. 1, 50c—No. 1½, 40c—No. 2, 30c

List of Varieties — Hybrid Tea Everblooming

Roses, 2-yr., Field-grown, Budded on Japonica

Multiflora.

REDS

Red Radiance

Etoile de Hollande

Poinsettia

Ami Guinard

Rouge Mallerin

Red Talamon

PINKS

Pink Radiance

Editor McFarland

Pink Columbia

Briarcliff

WHITES

Kaiserin A. Viktoria

—H. P.

YELLOW

Luxembourg

Golden Dawn

Mrs. P. S. du Pont

Golden Ophelia

Sunburst

Roslyn

Yellow Talamon

Golden Charm

VARIEGATED or

MULTICOLOR

President Hoover

Talamon

POLYANTHA ROSES

—BABY ROSES

Improved Lafayette

CLIMBING ROSES

Paul's Scarlet

Red Radiance

Cl. Talamon

Cl. Red Talamon

F. K. Druschki—

H. P.

Mrs. P. S. du Pont

Red American Beauty

USUAL TERMS AND CONDITIONS

Delivery New or Late Spring.

Please your order today.

OZARKS PLANT FARMS, Inc.

523 SEMINOLE DRIVE SPRINGFIELD, MO.

LIGUSTRUM IBOLIUM Hardy California Privet.

Per 100 Per 1000

2 to 3 ft., br.	\$4.50	\$37.50
18 to 24 ins., br.	3.50	27.50
12 to 18 ins., br.	3.00	22.50
12 to 36 ins., row-run.	3.00	25.00

LONICERA JAPONICA

HALLIANA

2-yr., fr.	7.50	60.00
1-yr., fr.	6.00	45.00
Routed div., liners.	.75	6.00

VINCA MINOR Hardy Myrtle.

Medium clumps	3.50	30.00
Routed div., liners.	.60	5.00

5 per cent discount for cash with order.

McMINNVILLE TREE CO.

Box 125 McMinnville, TENN.

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.
ONARGA, ILL.

Chipman's

RED RHUBARB

Large, No. 1 divisions, \$15.00 per 100.

Cash with order; packing free.

Write for prices on larger quantities.

KEELER'S GARDENS

SIoux FALLS, S. D.

No Weed Problem Here! →

**Soil was treated before planting
with**

DOWFUME MC-2

No laborious hand weeding is needed here—because weed seeds were killed by soil fumigation with Dowfume MC-2 before planting was done.

Dowfume MC-2 has shown excellent results—both with seedlings grown under glass and in the field. This new Dow soil fumigant kills most of the weed seeds present in the soil—also controls nematodes and other root-attacking parasites. At higher dosages, it controls many soil-borne plant diseases. It is easy to apply—does a thorough job throughout the tilled layer of soil—aerates quickly to permit planting within 48 to 72 hours.



Uniform, vigorous eggplant seedlings growing in flats treated with Dowfume MC-2 before planting.

Your Dow Dealer can supply you with Dowfume MC-2 and the simple equipment needed for its application. Or you may write our Fumigant Division for complete information.



THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN

culture at the University of Minnesota. The section is now in the charge of Robert A. Phillips, since Dr. L. E. Longley retired last June.

Mr. Turnquist served as horticulturist at the Crookston experiment station and did some potato variety testing and breeding work before joining the agricultural extension service at the University of Minnesota last October.

FLOWER GROWER CHANGES.

Theodore A. Weston has been promoted to executive editor of the Flower Grower. Before joining Flower Grower as managing editor four years ago, Mr. Weston was associated with the Florists' Exchange.

Charles R. Schumacher has been appointed advertising manager of Flower Grower. He formerly worked on the garden pages of the New York Times, the New York Herald-Tribune and House Beautiful.

WALLACE E. PIPPERT, of the Pippert Nurseries, Inc., Cleveland, Wis., has accepted a temporary position as assistant sales manager with the Trauernicht Nursery Co., Fort Worth, Tex. He will return to his home in time to resume his duties there at the beginning of the spring season.

QUALITY JUNIPER GRAFTS

For Spring, 1950, delivery, from 2 1/2 in. pots on Virginiana understock.

We are grafting *Juniperus virginiana canaerti*, *gleuca*, *pyramidiformis* (Dundee), *burki* and *keteleeri*.

PAUL ARTERBURN NURSERY

BOX 72 ST. MATTHEWS, KY.

We Offer FOR SPRING AND FALL

An extra-fine lot of
Peach — Plum — Grape — Apricot
Cherry, Sweet and Sour
Can furnish carloads.

Also Shrubs, Evergreens and Shade Trees.

Send us your want list.

COMMERCIAL NURSERY CO.
Nicholson Bros. DECHERD, TENN.

30,000 Potted Taxus Liners

1, 2 and 3-year.
Weigela Eva Rathke, transplants.
Viburnum Rhytidophyllum.

HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

WE OFFER IN QUANTITY

Abelia Grandiflora, 6 to 12 ins.; 12 to 18 ins.; b.r.; 18 to 24 ins.; b.r.; 2 to 3 ft., b.r.

White-flowering Dogwood, *Amur River South Privet* and *Calyculanthus*, seedlings, 6 to 12 ins.; 12 to 18 ins.; 18 to 24 ins.

White Walnut, seedlings, 12 to 18 ins.; 18 to 24 ins.; 2 to 3 ft.; 3 to 4 ft.

Red Cedar, transplants, and *Flowering Shrubs*.

Write for price list.

THE ARNOLD C. CLARK NURSERY

Phone: D 722

ROUTE 2 McMinnville, TENN.

**SERVING YOU SINCE '72
FROM**

THE CENTER OF THE SOUTH

THE Southern
Nursery & Landscape Co., Inc.
WINCHESTER, TENNESSEE

Phone-Write-Wire for Quotations

GRAPE CUTTINGS

CONCORD and FREDONIA, \$3.50 per 1000, F.O.B. here. Tied with wire, 160 to bunch. Guaranteed true-to-name. Cut from our young, thrifty vineyard by experienced workmen.

IDEAL FRUIT FARM Stilwell, Okla.

WE OFFER FOR SPRING, 1950 SHADE TREES

CORNUS FLORIDA
SWEET GUM
RIVER BIRCH
RED MAPLE

CERCIS CANADENSIS
TULIP TREE
SUGAR MAPLE
WHITE ASH

8 to 10 ft., well branched, bare root. Per 100
10 to 12 ft., well branched, bare root. \$100.00
150.00

The above prices are for truck or carload lots. We do not box or bale large stock like this. We can make delivery by large trailer truck at 20c per mile both ways; smaller truck, 10c per mile both ways.

We refer you to our ad in the Jan. 1 issue for B&B Azaleas and Kalmia.

O. H. PERRY NURSERY CO.

BOX 545

McMINNVILLE, TENN.

WE OFFER FOR SPRING, 1950

Ligustrum Amurense
Ligustrum Ibolium
Ligustrum Ovalifolium
Ligustrum Sinense
Weigela Rosea
Weigela Hendersonii

Kerria Japonica
Cydonia Japonica
Spiraea Opulifolia (Physocarpus).
Ninebark
Spiraea Prunifolia. Bridal Wreath

The above is a first-class, field-grown stock. We have a very good supply of all items. Write us for prices or send your want list.

O. H. PERRY NURSERY CO.

BOX 545

McMINNVILLE, TENN.

The Homestead Nurseries H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs,
Perennials—Quality Stock in All Leading Varieties. Trade catalog on request.

WILLIAM VAN HERREWEGHE

(formerly W. E. & R. Van Herreweghe)

Export Nurseries

SERSKAMP, near GHENT, BELGIUM

FRUIT TREE STOCKS

EAST MALLING TYPES

ORNAMENTAL SHRUBS

FOREST PLANTS and Seedlings

ROSES and EVERGREENS

Prices on application.

EAST MALLING CLONAL FRUIT TREE STOCKS

STILL AVAILABLE

East Malling II, IV, VII and XVI.
Quince type B; Myrobalan B.

ENGLISH VARIETIES

OF GOOSEBERRIES

Layers for lining-out, \$20.00 per 100.

Gold Coin, Cousen's sdg.,
Levellor, London and Lancer.

MANTEN'S NURSERY,
WHITE ROCK., B.C., CANADA

BUY HOLLAND- GROWN PLANTS

Acer platanoides "Faassen's Black,"
new variety.

Rosebushes.

Nursery stock.

Forest plants, all varieties.

Avenue trees.

Ask lowest prices and quantities
required.

J. H. FAASSEN-HEKKENS
Holland's most extended nurseries.
TEGELEN, HOLLAND

Holland-Grown Nursery Stock

Shrubs and Trees,
including liners.

Rhododendrons and Azaleas

Hardy Perennials

Peonies

NOVELTIES IN ALL LINES

Ask for wholesale catalog.

F. J. Grootendorst & Sons
BOSKOOP, HOLLAND

Growers and exporters since 1903

AMERICAN NURSERYMAN

ALL-PURPOSE ROTARY GARDEN TRACTOR.

The Cultiller Corp., New Brunswick, N. J., manufacturer of a 2-wheel, 3-horsepower garden tractor for nurserymen, landscape men and home gardeners, has put on the market a rotary tillage attachment which gives its tractors three unique features. The other two are a worm-gear drive and a full automatic clutch. The Cultiller models also are equipped with free wheeling, adjustable handles and tractor tread pneumatic tires. The tractors work on a principle of independent drive of wheels and tires.

Complete with rotary tiller attachment is the new Cultiller model C. The 3-horsepower Clinton engine affords a speed of from one to three miles per hour. The front chassis is made of cast aluminum alloy and the rear deck of sheet steel; the model weighs 187 pounds. The tilling attachment tills a normal width of sixteen inches and a depth of one to eight inches.

The Cultiller garden tractor can be used with about twenty attachments made by the Cultiller Corp., so that, in addition to its many uses for garden work, it can be used for many jobs when fitted with attachments, such as sickle bar, lawn mower, power sprayer, sulky, snow plow or lawn roller.

NEW DAYTONA FIRM.

A new nursery and landscape business, named Palmland Nursery, has been opened at 922 Volusia avenue, Daytona Beach, Fla. On a tract of land 300 feet long on Volusia avenue and 200 feet long on Caroline avenue, which has been enclosed by masonry walls and hedges, have been designed and planted various types of patios, walks, rock gardens, pools and other landscape arrangements, such as one would find on Florida home grounds. All the nursery's plants are displayed in garden settings, fulfilling the aim of the firm to display actual arrangements so the homeowner may select plants to harmonize with his own home grounds.

The firm emphasizes the importance of the outdoor living room in Florida and will specialize in "package deals," doing a complete job of designing, building and planting, selling ideas as well as plants.

J. B. Kulzer, local builder, is owner of the nursery. Walter Snead, Jr., designed the grounds and will manage the nursery, with the help of Mrs. Snead, and will have a working interest in the business.

KRIEGER'S WHOLESALE NURSERY

BRIDGMAN, MICHIGAN Telephone 22

SMALL FRUITS

These prices cancel all previous lists and are subject to change without notice. 250 or over at 1000 rate. Boxing at cost. All prices F.O.B. Bridgman. Usual terms.

GRAPES			RED RASPBERRIES		
	Per 100	Per 1000		Per 100	Per 1000
Concord, 2-1	\$10.00	\$ 80.00	Latham, transplants	7.50	\$ 62.50
Concord, 1-1	8.00	80.00	Latham, 1-yr. No. 1	6.00	47.50
Niagara, 2-1	11.00	90.00	Chief, transplants	7.00	60.00
Niagara, 1-1	9.00	70.00	Chief, 1-yr. No. 1	5.50	45.00
Catawba, 2-1	11.00	90.00	Sunrise, transplants	7.00	60.00
Catawba, 1-1	9.00	70.00	Sunrise, 1-yr. No. 1	5.50	45.00
Fredonia, 2-1	11.00	90.00	Indian Summer, transplants	8.00	70.00
Fredonia, 1-1	9.00	70.00	Indian Summer, 1-yr. No. 1	6.50	55.00
Delaware, 2-1	14.00	120.00	St. Regis, transplants	7.00	60.00
Delaware, 1-1	11.00	90.00	St. Regis, 1-yr. No. 1	5.50	45.00
Van Buren, 2-1	26.00	...	BLACK RASPBERRIES		
Van Buren, 1-1	16.00	...	Cumberland, trans. No. 1	8.00	70.00
Sheridan, 1-1	14.00	...	Cumberland, trans. No. 2	6.50	55.00
BLACKBERRIES			Cumberland, tips, No. 1	4.50	35.00
Eldorado, transplants	6.50	55.00	Logan, trans. No. 1	8.00	70.00
Eldorado, No. 1, r.c.	5.00	40.00	Logan, trans. No. 2	6.50	55.00
Alfred, transplants	6.50	55.00	Logan, tips, No. 1	4.50	35.00
Alfred, No. 1, r.c.	5.00	40.00	Morrison, trans. No. 1	9.00	80.00
Early Harvest, No. 1, r.c.	5.00	40.00	Morrison, trans. No. 2	7.50	65.00
BOYSENBERRIES and DEWBERRIES			Morrison, tips, No. 1	5.00	40.00
Boysenberry (Common), No. 1 tips	5.00	40.00	PURPLE RASPBERRIES		
Boysenberry (Thornless), No. 1 tips	5.50	45.00	Sodus, No. 1, tips	5.50	45.00
Lucetta Dewberry, No. 1 tips	5.50	40.00	ASPARAGUS		
CURRANTS			Paradise and Washington	4.00	30.00
Wildor, 3-yr. heavy	15.00	130.00	2-yr. No. 1	2.30	18.00
Wildor, 2-yr. No. 1	12.00	100.00	1-yr. No. 1	1.70	12.00
Wildor, 1-yr. No. 1	7.00	60.00	1-yr. in 10,000 lots	...	10.00
Red Lake, 2-yr. No. 1	16.00	...	VICTORIA RHUBARB		
Red Lake, 1-yr. No. 1	12.00	...	Whole Roots	...	...
GOOSEBERRIES			1 1/2-in. and up	8.00	75.00
Downing, 2-yr. No. 1	25.00	...	1 to 1 1/4-in.	5.50	50.00
Houghton, 2-yr. No. 1	25.00	...	3/4 to 1-in.	4.00	35.00
Champion, 2-yr. No. 1	25.00	...	1/2 to 3/4-in.	3.00	25.00
BLUEBERRIES			RED RHUBARB		
Prices of Rancocas, Rubel, Jersey			Canada Red, No. 1 divisions	40.00	350.00
2-yr., 9 to 12 ins., bearing age	\$0.40	\$3.50	McDonald, No. 1 divisions	30.00	250.00
3-yr., 12 to 18 ins., bearing age	.55	5.00	HORSE-RADISH		
4-yr., 18 to 24 ins., bearing age	.75	7.00	Cuttings, 4 to 6 ins.	2.00	15.00
			Whole Roots	4.50	35.00

Write for Special Quotations on Quantity Lots.

GARDEN INSTITUTE MERGES.

The National Garden Institute has merged with Friends of the Land and its address is 1368 North High street, Columbus 1, Ohio. Approval of this step was given by the directors or trustees of the respective organizations in the fall. The two organizations have had an interlocking of officers and directors, as well as a considerable duplication of contributing and regular members.

The National Victory Garden Institute was organized in February, 1943, to carry out objectives proposed at that time by the United States Department of Agriculture. It was continued after the war, but further peacetime development was abandoned in favor of merger with the Ohio organization.

CORRECTION.

In the article "Modern Methods of Plant Propagation" by Richard Fillmore in the December 1 issue it was erroneously stated that "Whip grafts of apple, prunus species and many others can be callused ready for the field in ten days at 60 degrees Fahrenheit." Instead, the period for callusing should be thirty days at 60 degrees Fahrenheit.

FRUIT TREES

HARRISON BROTHERS NURSERIES

G. Hale Harrison, General Manager
BERLIN, MARYLAND

Maurice C. Ravensberg Boskoop, Holland

Reliable firm for general Nursery Stock and Belgian plants.
Catalog on application.

RASPBERRY PLANTS RED - BLACK - PURPLE

C. H. BENEDICT
GRAND JUNCTION, MICH.

Quality Holland Bulbs C. WESTERBEEK & SON, Inc.

Wholesale Growers and Exporters.
Sassenheim 44 Whitehall St.
Holland New York, N. Y.

Write for price list.

MALLING STOCKS

We offer Malling Stocks I, II, VII, IX, XVI and Quince A, B and C from stool beds originally supplied by East Malling Research Station. Guaranteed true-to-type and free from all disease.

Prices F.O.R., Liss Station, England.
Per 100 Per 1000
Firsts, 6 to 12 mm. \$6.00 \$56.00
Seconds 5.50 50.00

Also all the latest English varieties of fruit trees such as:

APPLES—Winston, Sunset, Laxton's Advance, Laxton's Epicure, Laxton's Fortune, George Neal, James Grieve, Tydeman's Early Worcester (mostly bred from Cox Orange).

PEARS—Laxton's Superb, Improved Fertility.

PLUMS—Early Laxton, Marjories Seedling.

All on stocks recommended by East Malling Research Station.

Prices on application.

BLACKMOORTESTATE
The Manager, Fruit Office
LISS, HAMPSHIRE, ENGLAND

VUYK VAN NES BOSKOOP HOLLAND

Originators of Azalea Vuykiana.
Growers of choice Nursery Stock.

Please direct your correspondence to:
140 CEDAR STREET NEW YORK 6, N. Y.

"BRODLEAF" HOLLAND PEAT MOSS

Fully Matured—Packed Dry—Saves Freight
20 LARGE 4-bu. BAGS (2 color) \$29.00
20 MEDIUM 2-bu. BAGS (2 color) 24.00
10 Large Standard Bales, each 4.00

Ask for delivered carload prices on:
STANDARD BALES — EXTRA BALES — JUMBO BALES

HALF MOON MFG. & TRADING CO., Inc.
90 West Street New York 6, N. Y.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

CALIFORNIA ASSOCIATION IN THIRTY-NINTH YEAR.

On November 23 at the city of Los Angeles a group of nurserymen gathered in convention. Included in the attendance roster were the names of J. A. Armstrong, W. B. Clarke, Leonard Coates, D. W. Coolidge, M. L. Germain, Charles Howard, Fred Howard, William Kirkman, John Reeves, George Roeding, C. W. Small, R. M. Teague and Charles Winsel.

Many of our newer nurserymen will not recognize some of these names, but most of you will recognize them as men who are either active in the nursery business at the present time or were the founders of some of our leading nurseries.

This meeting was not a recent meeting; in fact, this convention was held in 1911, a little over thirty-eight years ago, and was the first convention of the California Association of Nurserymen.

The actual formation of the California Association of Nurserymen dated back to the year before when a group of twenty-five nurserymen met at San Jose for the express purpose of forming an association of nurserymen in California. Looking through the report of the proceedings of the early conventions I note that the man who was probably the foremost supporter of this association was George Roeding, Sr. Prior to the formation of the California Association of Nurserymen, an organization known as the Pacific Coast Association existed, and even before this, nurserymen in California were organizing. Back in 1858 a group of California nurserymen organized to adopt a scale of prices and eliminate tree peddlers and establish direct trade with planters. About twenty-five years later there was a Southern California Nurserymen's Association which functioned chiefly to recommend varieties for planting.

In 1893 a group met at San Francisco to discuss organizations and put on a one-act play in nursery organization. At this meeting a continuous association was contemplated, but not realized.

The permanent California Association of Nurserymen was undertaken at San Jose in 1911, and the first an-

nual convention was held at Los Angeles that same year.

The original group consisted of twenty-five nurseries, and the growth of the association has been continuous since then, until at the present time we have a membership that is rapidly approaching the 600 mark.

In going through later membership lists of the association it is extremely interesting to note that in 1921 the following firms, which are at present members of our association, held membership in the association at that time:

Aggeler & Musser Seed Co.
Armcast Co.
Armstrong Nurseries
Bassett & Washburn
City & Kentia Nursery

Leonard Coates Nurseries, Inc.
Coolidge Rare Plant Gardens
Cottage Gardens
East Lawn Nursery
Foothill Nurseries
Germain's
Gregory Bros.
Hallowell Seed Co.
Howard Rose Co.
Howard & Smith
H. A. Hyde Co.
L. E. Ingoldsby
E. James Nursery
Lindo Nursery
Thomas Maxwell
F. W. Moffett Nursery
George F. Otto Nursery
H. Plath
Pacific Nurseries
Randall Bros.
Santa Ana Nurseries
Silva-Bergtholdt
Sunset Nurseries
Superior Nursery
R. M. Teague Nursery
Roy F. Wilcox Co.
Wilhite Nurseries

These firms were strong supporters of the California Association of Nurserymen then, and these firms still maintain membership and have been most important factors in the successful development of our present organization.

NEW

Plastic

LAWN SEED

Package

emphasizes the
Super-Refined Quality
of WHITNEY SEED

The germination is sealed in. WHITNEY'S 1950 advertising — just ahead — in national home magazines and big Sunday newspapers will interest hundreds of your local lawn makers in WHITNEY'S EXCELSIOR BRAND Lawn Seed. Get this business. Write today for prices and information on FREE Dealer Helps.

WHITNEY SEED CO., INC., Buffalo 5, N. Y.

A. B. C.
"Supreme" Quality
SEEDS — PLANTS — BULBS
 and
Growers' Accessories

Write for our latest prices.

AMERICAN BULB CO.
 1335 W. Randolph St. CHICAGO 7
 31 W. 27th St. NEW YORK 1

MYROBALAN SEED

LOVELL PEACH PITS

Nation's Leading Source
 Write today for quotations.

California
NURSERY COMPANY
Niles, California

SURPLUS VARIETIES

1-yr. Peach Trees		Each
3/4-in. and up, 6 ft. and up.....		\$0.35
11/16 to 3/4-in., 5 to 6 ft.....		.25
9/16 to 11/16 in., 4 to 5 ft.....		.20
7/16 to 9/16 in., 3 to 4 ft.....		.20
J. H. Hale	Mayflower	
Indian Cling	Early Elberta	
White English	Hiley	
Carman	Elberta	
Belle of Georgia	Red Bird	
Halehaven	Early Rose	
Chinese Cling	Golden Jubilee	

2-yr. Apple Trees		Each
1-in., 6 ft. and up.....		.40
11/16 to 1-in., 5 to 6 ft.....		.30
9/16 to 11/16 in., 4 to 5 ft.....		.25
7/16 to 9/16 in., 3 to 4 ft.....		.20
Arkansas Black	Winesap	
Early Harvest	Yellow Delicious	
Astrachan	Red Delicious	
Black Ben	M. B. Twig	
Early Transparent	Stayman	
Red June	Yates	

1-yr. Plum Trees		Each
3/4-in., 6 ft. and up.....		.40
11/16 to 3/4-in., 5 to 6 ft.....		.35
9/16 to 11/16 in., 4 to 5 ft.....		.25
7/16 to 9/16 in., 3 to 4 ft.....		.20
Mammoth Gold	Red June	
Damson	Burbank	

1 and 2-yr. Pear Trees		Each
9/16-in., 5 to 6 ft.....		.60
9/16-in., 4 to 5 ft.....		.50
7/16-in., 3 to 4 ft.....		.40
Pineapple	Kieffer Garber	

Cherry Trees		Each
2 to 3 ft.....		.65
3 to 4 ft.....		.75
Montmorency	Early Richmond	

1-yr., No. 1 Grapevines		10c each
Niagara	Moore's Early	
Concord	Fredonia	

Weeping Willow Trees		Each
6 to 7 ft.....		.75
7 to 8 ft.....		.90
I have owned this nursery for 30 years, and people come back every year and want more stock. All stock is machine-dug.		

JOPPA NURSERY CO.

Grower of Fruit Trees,
Vines and Shrubbery
W. H. HILL
JOPPA, ALABAMA

GRAPEVINES

Heavy, well rooted.

2-yr. Concord and Niagara.
Hydrangea P.G.
Peach

Write for prices.

Thorne Brewster

WILLOWBEND NURSERY

Davis Rd. Perry, Ohio

WESTHAUSER NURSERIES

Specializing in
Strawberries and All Cane Plants

Full Line of Nursery Stock

Let Us Quote on Your Want List.

WESTHAUSER NURSERIES

SAWYER, MICH.

SEEDS

Collectors of Tree, Shrub and
Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN Stanford, Mont.

It is interesting to note that back in 1911 one of the speakers on the program made this observation, "Nurserymen should be organized because this is an age of organized endeavor; the industrial world is organized; the big interests are organized, and the religious world is organized."

This observation was made thirty-eight years ago and certainly is more true today than ever before. If nurserymen thirty-eight years ago recognized the importance and the need of a strong trade association, surely that need is even greater today than it was in those days when there was so little government in business and state and federal controls were few.

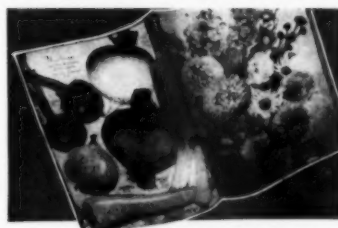
The speaker went on further to say, "What is organization? It is forming an association or group for the purpose of exercising some control of business or things. Such associations or organizations may be for good or bad. The purpose should be for the betterment of existing conditions. If for persons, then to help them to better social or material conditions. If for business and industrial matters, then to raise them to higher planes, broader and more liberal policies, economic and wise management."

In going through records of subsequent meetings of the association I note that after the second year the membership in the state association had grown to sixty-seven and that the association prospered to the extent of about twenty new members per year until the membership reached a total of 124. It appears that later the industry suffered some rather poor years and membership dropped to a point where there was some question as to whether the association could continue to operate, but by 1920 things began looking up for the organization, both in members and support for the organization financially.

That there were mutual problems similar to those which we have today in different form is evident by the subjects which were discussed at meetings from time to time, but the one fact that seems to prevail at all times is the agreement among the nurserymen of a definite need for a strong, active trade association. That these pioneer nurserymen sincerely believed this is evidenced by the fact that we have an active trade association in the nursery industry at the present time. It is my feeling that every nurseryman in business owes a debt of gratitude to the original members of the California Association of Nurserymen who met in their first annual convention at Los An-

NEW VARIETIES!

in HENDERSON'S
1950 FLORISTS and
GROWERS CATALOG



Write for your FREE copy today

For Better Stock

Plant HENDERSON'S Tested Seeds

FINER VARIETIES - STRONGER PLANTS

New, more beautiful and
bountiful flowers and vege-
table strains. Varieties that
bring the highest price in
the markets.

When you plant—

it pays to plant the best



1950 marks HENDERSON'S
103rd year of service to Nur-
serymen, Growers and Florists.

Peter Henderson & Co.

105 HENDERSON BLDG., 35 CORTLANDT ST.
NEW YORK 7 N. Y.

Sow Now!**HARDY PRIMROSES**

Best results are obtained when sown
in flats or pans containing light, well
drained soil topped with one inch of
shredded sphagnum. Cover seeds with
shredded sphagnum moss, water well
and place where they will be exposed
to freezing temperatures for several
months. Pkt. 1/4-oz. Oz.

Acaulis, finest mixed.
Brilliant mixture with
flowers on single, short
stems \$0.75 \$3.75 \$14.00

Auricula, fancy mixture.
Large fragrant velvety
blooms50 2.25 7.50

Polyantha,
fancy mixed75 3.50 12.00

Polyantha,
blue-flowered 1.00 3.50

Our new catalog lists many more
choice items. Write for it.

SOMERSET ROSE NURSERY, Inc.

P.O. BOX 608
NEW BRUNSWICK, N. J.

STRAWBERRY PLANTS

Certified

Grown on new land in isolated area. 30 acres of the largest and thriftiest plants we have ever grown. We are in a position to make you attractive prices on the following varieties.

Blakemore
Klonmore
Klondike
Missionary
Tenn. Beauty

Tenn. Shipper
Robinson
Premier
Gem
Streamliner

We will ship direct to your customers if you desire. You're welcome to come and see our fields. Let us quote you on your entire needs.



ROMINES PLANT FARMS

Route 3

DAYTON, TENN.

INTRODUCING Hagerstrom's New Patented (Pat. Pend.) Everbearing Strawberry

(Wayzata x Fairfax)

Large berry, heavy fruiter, good quality and substance, reproduces freely. A great contribution to commercial and home garden strawberry growers.

Sold only under contract and royalty restriction for propagation for sale. A limited number of potted plants available this season.

Historical and descriptive price list upon request.

HILLCREST GARDENS
ALBERT LEA, MINN.

Authorized agent under contract for exclusive potting rights of Hagerstrom's patented strawberry.

SMALL FRUIT PLANTS

Thirty varieties of Grapes, including the

GOLDEN MUSCAT

also

Currants and Berry plants

FOSTER NURSERY CO., Inc.
FREDONIA, N. Y.

APPLE and PEAR SEEDLINGS
2-yr. APPLE TREES
1-yr. PEACH, CHERRY, PLUM
and APRICOT

All grades. Write for special low prices.

L. R. TAYLOR & SONS
Phone: 35009 or 35019 **TOPEKA, KAN.**

FRUIT TREES

Apple, 1 and 2-yr., Dwarf and Standard

Pear, 1 and 2-yr., Dwarf and Standard

Plum, 1 and 2-yr.

Sweet and Sour Cherry,
1 and 2-yr.

Quince, 2-yr.

Apricot, 2-yr.

Peach, 1-yr.

Write for our wholesale list.

KELLY BROS. NURSERIES, Inc.
DANVILLE, N. Y.

WE OFFER . . .

Our General Line of

SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

EVERBEARING STRAWBERRIES

All the newest and best varieties. Fine, heavy-rooted, healthy plants.

Write for 1950 price list.

McNEAL BERRY NURSERY
HAMILTON, MONT.

geles in 1911. You who are in business in this state today owe much to those who gave of their time and their money to consider and work on industry-wide problems. It is your obligation to continue to maintain and support a strong trade association to help solve present-day problems and maintain the strong position that the industry now holds.

Elmer J. Merz, Exec. Sec'y.

LOS ANGELES PARTY.

Approximately 300 persons attended the Christmas party of the Los Angeles chapter of the California Association of Nurserymen, held December 16 at the Rio Hondo Golf Club. Following a cocktail hour a delicious turkey dinner was served. Entertainment was provided by a master of ceremonies, a comedian and Hawaiian dancers from the Val Moore School of Dancing. The hit of the evening was Oscar Cuellar, a young man from Guatemala who is studying the culture of tropical plants at the Buena Park Greenhouses. Mr. Cuellar played the guitar and sang many Spanish songs.

Among the honored guests were the officers of the state association and their wives, who are President and Mrs. Syd Whitehorn, Vice-president and Mrs. William S. Clark, Secretary and Mrs. Elmer Merz and Treasurer and Mrs. Walter Tecklenburg.

Chapter President F. C. ("Tommy") Tomlinson thanked the committees for their splendid work in giving the party.

Robert Weidner, Sec'y.

SAN FERNANDO PARTY.

The San Fernando chapter of the California Association of Nurserymen held its Christmas dinner party December 19 at the Empire Club, San Fernando. Dancing and a floor show provided entertainment. Presents were exchanged by members and their guests. F. C. (Tommy) Tomlinson and Lynn Mossholder were guests from the Los Angeles chapter, and Mr. and Mrs. Roy Surles, from the Aggeler & Musser Seed Co., and Mr. and Mrs. Ben Slufferman, from the Gaviota Co.

Jean Powell, Sec'y.

SAN JOAQUIN PARTY.

The annual Christmas party of the San Joaquin chapter of the California Association of Nurserymen was held December 15 at the Legion 509 Club, Fresno. It was a gala affair under the able chairmanship of Cliff Oliver.

Thirty-seven members, their wives and guests attended. Honored guests included the president, executive secretary and treasurer of the California Association of Nurserymen and their wives; namely, Mr. and Mrs. Syd Whitehorn, Mr. and Mrs. Elmer Merz and Mr. and Mrs. Walter Tecklenburg.

After an exceptional Christmas dinner, gifts and favors from under the tree were exchanged. A lively game of bingo followed by dancing to music on the piano and guitar entertained the group.

The next business meeting will be held January 19 at Fresno. Andy Caglia will be program chairman.

Ivan L. Stribling, Sec'y.

CALIFORNIA NOTES.

California nurserymen are proud of the announcement in a press release from the office of the American Association of Nurserymen that California now leads the nation in sales of horticultural specialties. Executive Secretary R. P. White predicted that sales for 1949 would run over \$500,000,000. California accounts for nearly \$70,000,000 of the total sales in the country, New York for about \$45,000,000, Pennsylvania for \$40,000,000 and Illinois for \$37,000,000. Los Angeles county, California, leads all the counties in the nation, having produced and sold about \$20,000,000 worth of nursery stock. Cook county, Illinois, is second, with about \$19,000,000.

Imogene Wittsche, the 14-year-old daughter of Fred Wittsche, nurseryman employed at F. Lagomarsino & Sons, Sacramento, who lost both legs below the knees as a result of being run down by a motorboat in Lake Tahoe last summer, recently was released from the hospital and will soon be fitted with artificial legs. Nurserymen in California contributed to a large fund given to her family to defray medical expenses. Phil Davis, who drove the motorboat in the accident has been convicted, but is out on bond pending an appeal of his case.

Nurserymen who are called on to make talks before amateur garden clubs may obtain sound movies on many garden subjects from the Better Gardens Institute, 593 Market street, San Francisco, without charge.

Gordon Lauder has been appointed to assist Clarence Sill as a nursery inspector.

Among the graduates in ornamental horticulture from San Mateo Junior College who recently attended a class reunion were Larry Day, Paul von Kempf, Gordon Lauder, Carl

MALONEY'S OFFER



Our 65th Year

A FINE ASSORTMENT OF
HARDY UPLAND-GROWN

FRUIT TREES

1 and 2-year

STANDARD and DWARF PEAR

STANDARD APPLE

PLUM, APRICOT, QUINCE

SWEET and SOUR CHERRY

PEACH, 1-YEAR

SHRUBS—EVERGREENS—ORNAMENTALS

Let Us Quote You Attractive Wholesale
Prices on Your Spring Requirements.

Write for Complete Trade List.

See our Representative, H. W. Maloney,
at the Illinois Nurserymen's Meeting.

MALONEY BROS. NURSERY CO., Inc.
DANVILLE, N. Y.



Superfection Everbearing Strawberries, Sept. 12, 1948.

GROW MORE BERRIES THIS NEW EASY PYRAMID GARDEN WAY

Grow Beautiful Pyramid Gardens of Moss Roses, Phloxes, Hybrid Tea Roses, etc. The practical vegetable garden.

Complete set of aluminum bands, 6-foot diameter, aluminum bolts and instructions, postpaid to your customer under your label, only \$6.40.

JUDSON WHOLESALE NURSERIES Bristol, Indiana

Largest growers of Strawberry and Phlox plants in the middle west.
Packing out exclusively for the trade. Write us for particulars.

CERTIFIED BLUEBERRY PLANTS

1-year Rooted Cuttings, 2 and 3-year Nursery Plants,
All Varieties.

Propagated from stock taken from our own productive farms.

Guaranteed True to Name.

SEND for RIGHT WHOLESALE PRICES.

GALLETTA BROTHERS'
BLUEBERRY FARMS
HAMMONTON, NEW JERSEY

ROBERTS NURSERY CO.

Wholesale growers of Dependable

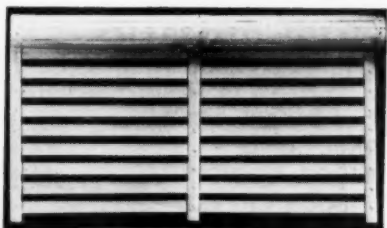
FRUIT TREES

We solicit your list of wants.

DANVILLE, N. Y.

New LATH IN ROLLS

LIKE LAYING A CARPET



Simplifies Lath House Construction

5x50-ft. Alumatlath Rolls may be put in place in a jiffy. With your framework up you merely unroll Alumatlath and nail it in place, and immediately you have uniform shading at low cost with long-lasting Alumatlath . . . the metal lath house.

THE MOST CONVENIENT CONSTRUCTION KNOWN

Above you see a roll of 1-in. spaced Alumatlath. It weighs but 30 lbs. It can be "applied like a carpet" . . . then nailed into place.

Alumatlath Rolls are available in 0-in., 1-in., 1½-in. or 2-in. spacings; also special spacings.

For greenhouses, patios and porches Alumatlath is the buy. With cord attachment it will roll up or down as required and affords ideal protection.

Some Territories Open for Distributors. Write or Wire.

HARRY H. REYNOLDS

2561 VALENCIA ST.

SANTA ANA, CALIF.

THE SHERWOOD RED AZALEA

is taking the country by storm. Happy customers everywhere, and many repeat orders. The most magnificent, hardy evergreen azalea known.

Don't be caught short on this fast-selling item. Stock is moving rapidly. See our wholesale trade list for description.

Fine, budded specimen plants, 6 to 9 ins., shipped bare-root and carefully packed, \$43.00 per 100.

Also this great favorite—

SHERWOOD ORCHID AZALEA

Fine, budded specimens, 9 to 12 ins., shipped bare-root and carefully packed, \$51.00 per 100.

Order now for spring delivery. Cash only. We have many items in lining-out stock listed in our wholesale catalog available to the trade.



ALSO CHINESE PINE

Fine B&B Specimen Trees	Each per 100
18 to 24 ins., B&B	\$0.81
24 to 30 ins., B&B	1.22
30 to 36 ins., B&B	1.54

F.O.B. Portland Ore.
Order today.

SHERWOOD NURSERY CO.

EVERGREENS — Propagators & Growers

Wholesale Only

141 S. E. 65th Ave., PORTLAND 16, ORE.

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

ROSES

During the year, watch the
pages of the American
Nurseryman for your best
bet in Bare-root Roses—

WEEKS "California-grown, Quality Known"

WEEKS WHOLESALE ROSE GROWER

O. L. WEEKS

R. F. D. 3, Box 323

SANTA ANA, CALIF.



Wertz, Jules Fanguard, George Powell and Dan Williver. All are in the nursery business or closely allied work.

W. B. B.

TO INTRODUCE NEW ROSE.

According to an article in the Burlingame, Calif., Advance, John R. Padilla, of Padilla Roses of California, South San Francisco, will introduce a new patented rose, called Indian Maid, in December, 1951. A hybrid tea, the new rose has long pointed buds, and the petals are salmon with reverse in bronze-yellow.

During the war Mr. Padilla served for six years in the Marine Corps and saw active duty in the Pacific theater. After his discharge he settled in northern California and selected as the site for his nursery, a hollow, protected by the elevated area of Buri Buri Village, South San Francisco. The new nursery, of modernistic design, was officially opened in August. It includes a garden supply department and does both a retail and mail-order business.

Mr. Padilla and his wife, Mildred, and their two sons, Noel, 19, and Jesse, 23, formerly lived at Van Nuys, where they were also engaged in the nursery business. His father, Juan Padilla, manages this establishment and he, too, has been in the nursery businesses since his youth.

CALIFORNIA PEACHES.

As a result of breeding work conducted last year on the Grant Merrill fruit farms, Red Bluff, Calif., two new peach varieties, Merrill Gem and Merrill Beauty, were recently introduced and patented.

Produced by crossing Red Bird and J. H. Hale and then planting the open pollinated seeds of the best of the resulting seedlings, Merrill Gem resembles Red Bird in many respects. Its season is about the same as that of Red Bird, or possibly a few days earlier. As grown in California, Merrill Gem is red almost all over and is larger. It has a yellow flesh and almost no split pits, as are common to Red Bird. The flesh is intermediate in texture between that of Red Bird and J. H. Hale, being quite crisp when first picked, even when with nearly full sugar. According to Mr. Merrill, this new variety is quite firm and so fills the needs of early shipping under California conditions.

Produced by planting a seed of J. H. Hale from a tree growing beside a peach variety test block, Merrill Beauty more nearly resembles J. H. Hale than any other peach,

though the tree which developed from the J. H. Hale seed appears to be a cross between J. H. Hale and Arp because the fruit and many of the seedlings resemble Arp. The best seedling to develop from the original tree was named Merrill Beauty. It ripened commercially at Red Bluff last year forty-six days ahead of Elberta and was picked commercially thirteen days ahead of Redhaven. Probably because of the cool nights, it takes longer for a variety to mature in California than in eastern states.

Although highly colored, the Merrill Beauty does not have so much color as the Merrill Gem, being about half covered with a red blush. When soft ripe the fruit is completely free-stone, but when firm ripe it clings to the pit somewhat. When the fruit is quite green a relatively high sugar content is developed; so it can be picked when green to ripen into a good peach, which should make it valuable for eastern shipment.

NACCONOL AS DEFOLIANT FOR NURSERY STOCK.

Report from the Oregon agricultural experiment station is that Nacconol (NR, HG and NRSF) sprays in proper concentration with a summer oil appear to bring about satisfactory defoliation of rose plants in the field prior to digging and storage. They have been equally effective on apple seedlings. A copper sulphate talc dust, while effective in defoliating some varieties, is not generally so satisfactory and safe as the Nacconol sprays, states A. N. Roberts, of the department of agriculture.

The effectiveness of a defoliation spray depends on a number of factors, including the variety in question, its age and maturity, the weather conditions, the kind and concentration of the defoliant applied and the time and method of its application. Whether or not the plant will be injured by such treatment also is determined by these factors.

Some species and varieties of roses are satisfactorily defoliated by a spray composed of two per cent Nacconol NR plus three per cent summer oil in ten days to two weeks' time, states the report. With other varieties, however, a concentration of three or four per cent Nacconol NR plus the summer oil is required for complete defoliation. Still other varieties are not completely defoliated with any of the sprays used. Whether they would respond to still higher concentrations remains to be seen. It appears that some of these difficult varieties are naturally slow in developing abscission layers and, if given



WITH WELL ESTABLISHED
STURDIER ROOT SYSTEMS

CALIFORNIA GROWN *Lining Out Stock*

We list just a few from our *unusually large selection*. In 2 1/4" pots — prices F.O.B. Monrovia. Minimum quantity 25 per variety. Immediate shipment to any part of the country.

	EACH
Bouvardia Albatross.....	15c
Chamaecyparis Law. Ellwoodi.....	15c
Erica melanthera rosea.....	15c
Eucalyptus rudis.....	10c
Euonymus aureo-marginatus.....	12c
Hedera canariensis variegata.....	12c
Hydrangea White.....	15c
Ilex cornuta.....	15c
Myrtus communis variegata.....	15c
Pinus halepensis.....	12c
Pyracantha graberi.....	15c
Pyracantha lalandi.....	12c
Sequoia sempervirens.....	15c
Viburnum robustum.....	12c

WRITE FOR OUR FREE CATALOG

monrovia
Nursery Co.



Wholesale
Only

POST OFFICE BOX 196
MONROVIA, CALIFORNIA

PACKED TO PROTECT PLANTS
AND SAVE ON FREIGHT COSTS



California-grown Rosebushes — Plus Service

We specialize in growing rosebushes for sale at wholesale in lots of 100 to 10,000. Through specialization we are able to offer the best in rosebushes and service. Your inquiry will receive our prompt attention.

HOWARD ROSE COMPANY

P. O. Box 725

Hemet, California

PLANT BUYERS GUIDE — \$7.50 per copy postpaid.

Tells where to buy over 50,000 different plants and seeds.

AMERICAN NURSERYMAN

343 So. Dearborn St.

Chicago 4, Ill.

OREGON'S BEST SOURCE OF GOOD ROSES

A complete list of **HYBRID TEAS, CLIMBERS, BABIES and FLORIBUNDAS**. Also, one of the most complete lists of patent varieties, including the A.-A. R. S. award winners.

SEND FOR OUR LISTS.
EASTERN REPRESENTATIVE:
FRANK C. DONOVAN
5056 WASHINGTON BLVD.
CHICAGO 44, ILL.
PETERSON & DERING
ROSE GROWERS
Scappoose, Oregon

FOR 1950 SEASON

Fruit Trees
Small Fruits
Fruit Tree Seedlings
Flowering Trees
Shade Trees
Shrubs
Roses

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

RICH & SONS NURSERY
Hillsboro, Oregon

CHINESE ELM SEEDLINGS

	Per 100	Per 1000
12 to 18 ins.	\$2.50	\$15.00
18 to 24 ins.	3.50	20.00
2 to 3 ft.	5.00	30.00
3 to 4 ft.	7.50	50.00

Send for prices on pear seedlings, Bartlett Pear trees, etc.

WASHINGTON NURSERIES
TOPPENISH, WASH.

ROSES

2-yr., on multiflora, in all the most popular standard sellers. Also some on manetti for greenhouse use. Rooted multiflora for fence rows.

Send for list.
Art Suhr, prop.
MT. HOOD NURSERY GRESHAM, OREGON

sufficient time, will show considerable response.

Older plants of a given variety mature their foliage earlier in the fall and for this reason are more responsive to defoliant sprays. Rose plants of any age, as they approach maturity, become progressively easier to defoliate with a given concentration of the defoliant material.

Comparable concentrations of Nacconol HG and NRSF seem to be equally effective as the NR form, but are not so easy to use. The relative cost and efficiency of these various forms need to be determined. A ten per cent copper sulphate talc dust, while an effective defoliant for some varieties of roses, does not appear to be so effective as the Nacconol sprays.

The time of application and weather conditions are important factors in determining the effectiveness of these defoliant sprays. The earlier the application is made in the fall, the less mature the rose plant is, and the higher the concentration of the spray must be to obtain satisfactory results. Defoliation obtained by this means is ordinarily at the expense of adequate plant maturity. Temperature and moisture conditions following application, however, are important factors in determining the effectiveness of the defoliant spray. Ordinarily the higher temperatures that prevail at the time of an early application will tend to increase the killing power of the spray, but, if the plant is not sufficiently mature, more complete defoliation will not necessarily follow. It may be necessary to use a higher concentration with late spraying if the weather has become colder.

The presence of excessive moisture during or immediately following application of the spray will reduce the effectiveness of the defoliant. However, after the spray has had a chance to penetrate and kill the leaf tissue, the presence of ample moisture in the atmosphere seems conducive to more rapid abscission of the injured leaf. A certain amount of moisture on the foliage is necessary when using a copper sulphate dust, but a rain too soon after its application will reduce its effectiveness. The Nacconol sprays are best applied when the foliage is fairly dry.

Further investigations are necessary before Nacconol sprays can be recommended generally as defoliants for roses and other nursery stock, but they are the most promising of the spray materials tested thus far for this purpose, states the report. At the concentrations used in these tests, they have been extremely effective and have not resulted in chemical in-

Look for GROWING QUALITY NURSERY PRODUCTS

fruit trees
shade trees
grape vines
flowering trees
field & container
grown orientals



WRITE FOR COMPLETE VARIETY LISTINGS. WE WILL GROW ANY VARIETY ON ORDER.

THE WORLD'S LARGEST PRODUCER OF
RESISTANT ROOTSTALKS, FEATURING
S-37--AMERICA'S FINEST NEMATODE
RESISTANT PEACH ROOTSTALK.

Strubling's
NURSERIES



OFFICE and SALES YARD ON 99 HIGHWAY NORTH
PHONE 86 P.O. BOX 793 MERCED, CALIFORNIA

PACIFIC COAST NURSERY

2244 N. Skidmore Ct.
Portland 11, Ore.

Pioneer seedling growers on
the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings and English Privet.

We aim to please
with quality stock.

John Holmason & Sons, Props.

DEL RANCHO FORTUNA

FRUIT TREES
and
GRAPEVINES

P. O. Box 548
McFARLAND, CAL.

BALED SHINGLE TOW

(CEDAR SHAVINGS)

WM. A. JOHNSTON

1722 N. W. 15th St. Portland 9, Ore.

TAYLOR'S ENCYCLOPEDIA of GARDENING
By Norman Taylor 1,225 pages, illustrated
\$5.00, postpaid
American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

jury to the plant. However, too early defoliation has resulted in insufficient storage for carbohydrates in the canes and roots of the plants for satisfactory storage. Plants at the Oregon agricultural experiment station, Corvallis, defoliated before November 1, 1948, suffered severe winter damage in the field. Plants defoliated on October 15, 1948, in the Portland area, and held in storage, came through in good condition. The maintenance of a functional leaf surface on nursery stock as long as possible during the fall months has a direct bearing on the winter hardiness and storage quality of the stock. Sometimes a week or two will make the difference between well matured and poorly ripened nursery stock.

GIVES GARDEN TO NATION.

Lord Aberconway, president of the Royal Horticultural Society, recently donated the major part of his remarkable 50-acre garden at Bodnant, North Wales, to the National Trust, an organization which, with the co-operation of the R. H. S., seeks to save some of the finest British gardens, the upkeep of which has been made impossible for their private owners by mounting costs in the face of decreasing income due to heavy taxation.

Bodnant contains one of the finest collections of plants in Great Britain. It is well known to the local public and tourists, because Lord Aberconway was accustomed to throw his garden open twice a week for the benefit of hospital funds.

With the garden he has donated an endowment fund to the National Trust in order that, with visitors' fees, the garden may be supported without becoming a burden to the trust.

His action is praised in English horticultural circles, because it will save Bodnant from suffering the fate of other fine gardens in that country which have either fallen into neglect or given way to building subdivisions.

Lord Aberconway is known on this side of the ocean not only for his service to horticulture and his long prominence in the Royal Horticultural Society, but also through his visits to this country.

FORMERLY Landscape superintendent of Capital Nursery Co., Sacramento, Calif., George C. Dobbins has opened Arden Town Nursery in the Arden Town suburban community near Sacramento. The nursery is surrounded by other shops.

PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz
Paul E. Van Allen

PORTLAND 14, OREGON

We are now shipping
FRUIT TREES and ROSES
Will gladly quote you on high-
quality, Oregon-grown stock.

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Write for our Catalog

A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale only

CONSTANT VIGILANCE RESULTS
IN QUALITY STOCK

Fruit Tree Seedlings
Flowering Ornamental Trees
Shade Trees

Combination carloads to Eastern
distributing points.

Write for our List.

Eastern Representative:

Frank C. Donovan
5056 Washington Blvd.
Chicago 44, Ill.

MILTON NURSERY CO.

MILTON Since 1878 OREGON

FRUIT TREE SEEDLINGS

Northwest-grown

Apple and Pear

Branched and Straight Roots

Mahaleb and Myrobalan

Root-pruned Branched Roots

Our Quotations Gladly Given.

Combination carlots available
to Eastern distribution January to
March.

DOTY & DOERNER, Inc.

6691 S. W. Capitol Highway

Portland 1, Oregon

Wholesale Growers
of
General Nursery Stock

EVERGREEN LINERS

Azaleas, Conifers, Heathers, etc.
Available in rooted cuttings and field
transplants grown in sandy soil.

Write for descriptive, illustrated
catalog.

MITSCH NURSERY

Wholesale Propagators and Growers of
Evergreen Liners
AURORA, OREGON

FRUIT and NUT TREES

Grown and Selected especially for the retail
Salesyard.

CARLTON NURSERY CO.
"Over Half a Century" — Since 1890
Forest Grove, Oregon

ROSES

Two-year-old, field-grown plants.
Send for wholesale list.

Maywood Rose Nursery
P.O. Box 5033, PORTLAND 13, ORE.

ROSES—TREE ROSES

Reservations made for 1950 season.
Good varieties—excellent quality. Write
for list.

Pacific Northwest Rose Nursery
P. O. Box 201 GRESHAM, ORE.

F. A. DOERFLER & SONS NURSERY

150 N. Lancaster Drive
SALEM, ORE.

Phone: 2-1322

CLASSIFIED ADS

Rate: 25 cents per line, each insertion.

Minimum order, \$2.00

AZALEAS

AZALEAS.
Thousands of beautiful, well budded, excellent color, field-grown Coral Bells and Hinodagirl. Easy trucking distance to New York and other eastern points, but we ship anywhere. Satisfied customers in 12 states.

Each Each
per 100 per 1000
6 to 8 ins. \$0.70 \$0.65
8 to 10 ins. .50 .85
10 to 12 ins. .15 1.00
Packing additional. Burlapping, 10c each extra. 250 at 1000 rate. Order today while they last, and send for list of other stock.

TANKARD NURSERIES
Exmore, Va.

75,000 AZALEA TRANSPLANTS.
Indica alba, Mary, Hinodagirl, Alice, Amoenia, Hinomayo, Flame, Purple King, mixed pink kempferi.

Very heavy, rooted.
12½c each in 1000 lots; 15c each in 100 lots.
Packing and shipping extra.
DEKALB NURSERIES, Inc.
Norriestown, Pa.

AZALEA TRANSPLANTS.

3 to 5 ins., well branched. Hinodagirl, Pink Pearl, Hinomayo, Snow, Ledifolia alba, Magnifica, Coral Bells, Amoenia and choice mixed. Ready in May, \$13.00 per 100. Packing free. Cash free with order.

BUCKINGHAM NURSERY
Box 144 Buckingham, Pa.

AZALEA TRANSPLANTS, Spring Delivery.
JOHN WIGMORE, Norman Ave., Riverside, N. J.

BERRY PLANTS

RASPBERRY PLANTS.

BLACK, No. 1 Tips. Bristol
Cumberland Logan Morrison

Transplants on Cumberland.

PURPLE, No. 1 Tips. Columbian
Sodus

Transplants on Sodus.

RED, ¼-in. cal. Transplants. Chief
Indian Summer Newburgh

Taylor Latham

Complete list of grapevines, currants and blackberries. Write for lowest wholesale prices on your requirements. A portion of the above is in storage ready for immediate shipment, and a portion will be Spring-dug in late March.

H. E. CONGDON NURSERY
North Collins, N. Y.

PIXWELL and SCHWAB GOOSEBERRIES.

LATHAM and CHIEF RASPBERRIES.
Pixwell Gooseberries, leading variety, 2-yr., heavy, \$25.00 per 100; 2-yr., light, \$15.00 per 100. Schwab Gooseberries, new seedling (world's largest Gooseberry), berries often 1½ ins. in diameter, highest quality, hardy, very productive, 1-yr., heavy, \$6.50 per 10; 1-yr., light, \$5.50 per 10; bearing size, \$1.00 each. All Raspberries, No. 1, heavy, \$4.00 per 1000. 10 per cent discount for cash on all stock. All plants that die, replaced at ½ price.

SCHWAB FRUIT FARM & NURSERY
220 N. Fifth St. Mankato, Minn.

GEM EVERBEARING

STRAWBERRY PLANTS.

Streamliner, Minn. 1166 and Brunes' Marvel. Guaranteed true-to-name and free from mixed varieties. Choice northern-grown plants. Booking orders for spring delivery. 10 per cent discount on orders of \$50.00 or more. Gem, \$10.00 per 1000.

Latham and Newburgh Raspberry plants, \$30.00 per 1000.

DAVIS PLANT FARM Hamilton, Mont.

RASPBERRY PLANTS.

Latham Red Per 1000

No. 1 suckers, \$30.00

1-yr. transplants, 40.00

2-yr. transplants, 50.00

No. 2 suckers, 18.00

Cumberland, Logan, Morrison

Black tips, 30.00

Columbian Purple tips, 35.00

C. H. BENEDICT, Grand Junction, Mich.

STRAWBERRY PLANTS.

Northern-grown; doubly inspected.

Per 1000

Gem Everbearing, \$12.00

Premier, 11.00

ROBERTS STRAWBERRY NURSERY

Rt. 6 Kalamazoo, Mich.

BLUEBERRY PLANTS.

Cultivated, improved hybrids.

Information, varieties and prices gladly sent on request.

HARTMANN'S PLANTATION

Grand Junction, Mich.

RASPBERRIES, No. 1 Morrison tips, \$30.00 per 1000.

VICTORIA RHUBARB, 1 to 1½ ins., \$30.00 per 1000; ¾ to 1-in., \$20.00 per 1000; ½ to ¾-in., \$15.00 per 1000.

Can ship rhubarb any time; tips early spring.

ASHCRAFT NURSERY
Copemish, Mich.

STRAWBERRY PLANTS — Northern-grown, spring-dug, Dunlap, \$8.00 per 1000;

Robinson, \$9.00 per 1000; Premier, Fairfax, Catakill, \$11.00 per 1000; Everbearing

Streamliner, \$15.00 per 1000; Gem, \$12.00 per 1000 and Minn. 1166, \$14.00 per 1000. Order early. **PERCY'S STRAWBERRY NURSERY,**

Kalamazoo, Mich.

STRAWBERRY PLANTS — All leading everbearing varieties. Northern-grown, No. 1 plants: Gem, Streamliner, Minnesota 1166,

Utah Centennial, New Progressive, Superfection, Twentieth Century and Brunes' Marvel.

Write for wholesale price list.

MCKENAL BERRY NURSERY

Hamilton, Mont.

RASPBERRIES—No. 1 Cumberland tips, \$3.00 per 100, \$24.00 per 1000.

BLUE RIDGE GARDENS

Route 4 Roanoke, Va.

Please mention the American Nurseryman when ordering from advertisements.

BULBS AND TUBERS

TUBEROUS BEGONIAS—Antonelli prize-winning hybrids. Outstanding size and color,

5c and up. **GIANT GOLD CALLAS.** Spectacular pot plants, easily grown, 10c and up.

Gloxinia, delphinium and primrose hybrids.

HYPER-HUMUS — The fertilized, cultivated peat for Cloveret mixtures, landscape work

and bag sales, \$10.00 per ton plus freight, 25-ton cars. Fine profit and customer satisfaction.

Complete price lists from **HELEN YEARSLEY, Tranquill Gardens, 14301 Telegraph Road, Detroit 23, Mich.** Will be at Michigan, Ohio and Illinois meetings.

PLANTING STOCK.

CALLA REHMANNI SUPERBA, Pink Calla.

¾ to 1-in. Per 100 Per 1000

1 to 1¼-in. \$5.00 \$45.00

6.00 55.00

ANTONELLI BROTHERS

Wholesale Growers

Route 2, Capitola Road

Santa Cruz, Calif.

REGAL LILIES.

Quality stock; F.O.B. Portland, Per 100

4 to 5 ins., \$4.00; \$27.00 per case of 750

5 to 6 ins., 5.50; 25.00 per case of 500

6 to 7 ins., 6.50; 22.00 per case of 350

JOHN MESKEL & SON

11120 N.W. Prescott Portland 20, Ore.

HARDY NORTHERN-GROWN LILY BULBS.

New, rare, scarce and unusual as well as standard varieties.

New wholesale list now ready.

Send for your free copy.

J. HENDRIKS, Grower Portage, Mich.

50,000 **DAHLIA ROOTS.** We grow many

acres of standard cut flower varieties for the trade. Write today for wholesale price list.

PAYNE DAHLIA FARMS, Route 5, Kansas City 3, Kan.

The trade's market place—

The ads in the American Nurseryman.

CAMELLIAS

SPECIAL SALE TO MAKE MORE ROOM.

Alba Plena, Anna Frost, Brilliant, Brooklyniana, Caleb Cope, Cameo Pink, Chandleri

Elegans, Cleveland, Countess of Orkney, Dark

Cheerful, Dixie, Elizabeth, Gloire de Nantes,

Hermes, Jarvis Red, Otome, Pink Perfection,

Prof. Sargent, Sarah Frost, Rooted cuttings,

12½c; 6 to 8 ins., 17½c; 8 to 12 ins., 25c;

12 to 18 ins., 35c.

Adolph Audusson, Alba Superba, C. M.

Hovey, Daikagura, Duchess of Sutherland,

Eleanor Haygood, Ethelington White, Firebrand, Gigantea, Glen 40, Imura, Kumasaka,

Lady Clare, Laurel Leaf, Nagasaki, Pink

Bell, Purple Dawn, Snow Drift, Sweetiana

Versa, Woodville Red. Rooted cuttings, 25c;

6 to 8 ins., 35c; 8 to 12 ins., 45c; 12 to 18

ins., 65c.

Above priced each. Minimum order 10 of a

kind. Remittance with order. Satisfaction

guaranteed or return for refund. Minimum

order, \$10.00.

NATIONAL NURSERIES

Dept. A Biloxi, Miss.

CAMELLIAS—Rooted cuttings in standard

and rare varieties. Pink Perfection, etc., in

liners. Write for price list.

SIMSON FLORAL GARDENS Semmes, Ala.

EVERGREENS

JUNIPERS.

ADMIRABILIS, rich blue-green prostrate type, very little winter discoloration.

Per 100

5 to 9 ins., T. 18.00

12 to 15 ins., TT, 2-yr., field-grown, 45.00

ANDORRA

6 to 9 ins., T. 18.00

12 to 15 ins., TT, 2-yr., field-grown, 45.00

CANAERTI

grafts, 2½-in. pots, 50.00

18 to 24 ins., TT, 2-yr., field-grown, 150.00

24 to 30 ins., TT, 2-yr., field-grown, 175.00

DUNDEE

grafts, 2½-in. pots, 50.00

18 to 24 ins., TT, 2-yr., field-grown, 150.00

24 to 30 ins., TT, 2-yr., field-grown, 175.00

GLAUCA

grafts, 2½-in. pots, 50.00

18 to 24 ins., TT, 2-yr., field-grown, 150.00

24 to 30 ins., TT, 2-yr., field-grown, 175.00

GLOBOSA, GREEN

grafts, 2½-in. pots, 50.00

12 to 15 ins., TT, 2-yr., field-grown, 150.00

HETZLI Silver Pfizer.

grafts, 2½-in. pots, 28.00

HILL'S PYRAMIDAL

grafts, 2½-in. pots, 50.00

18 to 24 ins., TT, 2-yr., field-grown, 150.00

24 to 30 ins., TT, 2-yr., field-grown, 175.00

KETELEER

grafts, 2½-in. pots, 50.00

MOFFETT'S

grafts, 2½-in. pots, 50.00

PATHFINDER

grafts, 2½-in. pots, 50.00

PFITZER

6 to 9 ins., T. 20.00

PFITZER, GOLDEN

6 to 9 ins., T. 22.00

RYAN'S GREEN SCOPE

grafts, 2½-in. pots, 50.00

SAVIN

6 to 9 ins., T. 20.00

12 to 15 ins., TT, 2-yr., field-grown, 45.00

STUHR'S SILVER

grafts, 2½-in. pots, 50.00

VIRGINALIS, HILLBUSH

grafts, 2½-in. pots, 50.00

15 to 18 ins., TT, 2-yr., field-grown, 150.00

VIRGINIANA, PLATTE RIVER, compact

salable specimens. Excellent for bench balling.

18 to 24 ins., TT, 2-yr., field-grown, 55.00

24 to 30 ins., TT, 2-yr., field-grown, 65.00

WELCH'S

grafts, 2½-in. pots, 50.00

18 to 24 ins., TT, field-grown, 150.00

24 to 30 ins., TT, field-grown, 175.00

YORK'S BLUE SCOPE

grafts, 2½-in. pots, 50.00

18 to 24 ins., TT, field-grown, 150.00

24 to 30 ins., TT, field-grown, 175.00

All Juniper grafts on Virginiana understock.

BLUE SPRUCE

KOSTER and MOERHEIM, on Black Hills stock.

grafts, 3-in. pots, 100.00

C.O.D. shipments must be accompanied by 25 per cent cash. Quantity discount—10 per cent on 1000 lots.

Our 2-year, twice transplanted grafts are grown in spaced nurseries. All our living

evergreens are dug bare root, puddled

and packed in moss. Packing and boxing

at cost.

NEBRASKA NURSERIES, Inc.

4815 "O" St. Lincoln 8, Neb.

EXTRA-HEAVY, FIELD-GROWN.

Per 100

Thuja woodwardi, 10 to 12 ins., \$28.00

Thuja woodwardi, 8 to 10 ins., 25.00

Taxus cuspidata, 12 to 15 ins., 30.00

Taxus cuspidata, 9 to 12 ins., 25.00

Juniperus, Andorra, 12 to 15 ins., 28.00

Juniperus, Andorra, 9 to 12 ins., 25.00

Taxus cuspidata, 12 to 15 ins., 32.00

3-in. pots, 27.00

Taxus hicksii, 12 to 15 ins., 3-in. pots, 32.00

Taxus hicksii, 9 to 12 ins., 3-in. pots, 25.00

Lombardy Poplar, 4 to 5 ft., whips, 7.00

Lombardy Poplar, 2 to 3 ft., whips, 4.00

Lombardy Poplar, 5 to 6 ft., br., 15.00

RIVERSIDE WHOLESALE NURSERY

Delbert A. Smith

R.R. 1 Upper Sandusky, Ohio

JUNIPER GRAFTS.

Juniperus canaerti, glauca, burki, keteleeri,

Dundee, hetzi, mascula, smithi, pfitzeriana,

LINING-OUT STOCK.

Seedlings	Per 100	Per 1000
<i>Fagus sylvatica</i> , 8 to 10 ins.	\$ 8.50	\$ 75.00
<i>Fagus sylvatica purpurea</i> , 8 to 10 ins.	15.00	
<i>Juniperus virginiana</i> , 2 to 4 ins.	5.00	40.00
<i>Laburnum anagyroides</i> , 4 to 8 ins.	3.50	30.00
<i>Magnolia glauca</i> , 2 to 4 ins.	4.00	35.00
<i>Pinus mugo</i> , 4 to 6 ins.	5.00	40.00
<i>Pinus mugo</i> , 6 to 8 ins.	7.50	60.00
<i>Pinus nigra austriaca</i> , 4 to 6 ins.	6.00	50.00
<i>Pinus strobus</i> , 4 to 6 ins.	4.00	35.00
<i>Pinus sylvestris</i> , 4 to 6 ins.	4.00	35.00
<i>Thuja occidentalis</i> , 4 to 6 ins.	4.50	40.00
<i>Thuja orientalis</i> (understocks), 8 to 10 ins., tr.	7.50	60.00
<i>Tsuga canadensis</i> , 6 to 8 ins., tr.	12.00	100.00
Twice transplanted cuttings from beds	Per 10	Per 100
<i>Juniperus communis hibernica</i>	\$2.25	\$20.00
<i>Juniperus communis suecica</i>	2.25	20.00
<i>Taxus media</i> , spreading	2.75	25.00
<i>Taxus media hatfieldi</i>	2.75	25.00
<i>Taxus media hicksi</i>	2.75	25.00
<i>Taxus media Moon's columnaris</i>	2.75	25.00
<i>Taxus media ovata</i>	2.75	25.00
<i>Taxus media Vermeulen</i>	2.75	25.00
Well established cuttings from 2 1/2-in. pots	Per 10	Per 100
<i>Andromeda japonica</i>	\$1.75	\$15.00
<i>Euonymus alatus</i>	1.75	15.00
<i>Ilex crenata bullata</i>	1.75	15.00
<i>Ilex crenata helleri</i>	1.75	15.00
<i>Juniperus communis hibernica</i>	1.75	15.00
<i>Juniperus communis suecica</i>	1.75	15.00
<i>Juniperus depressa plumosa</i>	1.75	15.00
<i>Juniperus excelsa stricta</i>	1.75	15.00
<i>Juniperus glauca hetzi</i>	1.75	15.00
<i>Juniperus horizontalis glauca wilsoni</i>	1.75	15.00
<i>Juniperus pfitzeriana</i>	2.25	20.00
<i>Taxus baccata repandens</i>	1.75	15.00
<i>Taxus cuspidata</i>	1.75	15.00
<i>Taxus cuspidata nana</i>	1.75	15.00
<i>Taxus media browni</i>	1.75	15.00
<i>Taxus media henryi</i>	1.75	15.00
<i>Taxus media hicksi</i>	1.75	15.00
<i>Taxus media Moon's columnaris</i>	1.75	15.00
<i>Taxus media ovata</i>	1.75	15.00
<i>Taxus media Vermeulen</i>	1.75	15.00
<i>Thuja occidentalis globosa</i>	1.75	15.00
<i>Thuja occidentalis globosa novum</i>	1.75	15.00

HESS' NURSERIES
Mountain View, N. J.LINERS.
Spring Delivery

	Each
Azalea Mollis, cream, branched, XX, 6 to 9 ins., fld.	\$0.25
Camellia, Herm., 2½-in. pot.	.25
Camellia, Cheerful, 2½-in. pot.	.25
Daphne	
Odora, X	.15
Cneorum, X	.12
Heather	
Bruckenthalia, XX, 2 to 4 ins., frame	.12
Med. White, XX, 2 to 4 ins., frame	.12
Mrs. Maxwell, XX, 2 to 4 ins., frame	.17
St. Kaveria, XX, 2 to 4 ins., frame	.15
Carnea, X, flat	.12
Mediterranea Hybrid, X, flat	.10
VeVilia, X, flat	.12
King George, X, flat	.12
Springwood White, X, flat	.12
Thuja woodwardi, X, frame	.12
Thuja pyramidalis, X, frame	.17
Viburnum burkwoodi, X, 4 to 6 ins.	.15
Viburnum burkwoodi, X, 6 to 8 ins.	.17
Lithospermum (Heavenly Blue) X, pots	.12

F.O.B. Nursery, packed free, C.O.D.
FOUR STAR NURSERY
Hi-way 99 at No. 212th
Rt. 3, Box 3629 Edmonds, Wash.

LINERS WITH QUALITY.

The plants listed below are grown in 2 1/2-inch rather than 2 1/4-inch pots. They have been growing in the pot plenty long to have a nice root growth and make transplanting most successful. These are outdoor bed-grown plants ready for sale.

	Each
2000 Arborvitae Blue Spire	\$0.17
9000 Burford Holly .....	.18
5000 Irish Juniper .....	.15
2000 Kiyono Juniper .....	.15
500 Vase-shaped Juniper .....	.12
2000 Loropetalum .....	.15
2000 Mahonia bealei .....	.15
2000 Jasminum primulinum (not potted) .....	.08
1000 Euonymus radicans (not potted) ..	.06
5000 Mimosa (not potted) .....	.05

VERHALEN NURSERY CO.
Scottsville, Texas

YOUR PROFITS GROW IN VERHALEN PLANTS.

TAXUS, LARGE LINERS.
FIELD-GROWN TRANSPLANTS.

From selected cuttings, best strain.	Per 100	Per 1000
<i>Taxus cuspidata capitata</i>	\$60.00	\$550.00
12 to 15 ins.	70.00	650.00
18 to 24 ins.	70.00	650.00

Also B&B *Taxus*, upright and spreading, in landscape sizes for Middle West shipment in carload lots.

BULK'S NURSERIES, Inc., Babylon, L.I., N.Y.

HEAVY LINERS FOR SPRING DELIVERY.

	Per 100
1000 Pyramidal Arborvitae, 12 to 15 ins., TTT.....	\$50.00
2200 Andorra Juniper, 9 to 12 ins., TT.....	25.00
700 Woodward Globe Arborvitae, 8 to 10 ins., T.....	15.00
650 Juniperus glauca hetzi, 12 to 15 ins., TTT.....	30.00
1000 Taxus cuspidata, 9 to 12 ins., TT.....	35.00
750 Ilex rotundifolia, 8 to 12 ins., TTT.....	25.00
2000 Canadian Hemlock, 9 to 12 ins., TT.....	25.00
2000 Canadian Hemlock, 12 to 15 ins., TT.....	35.00
9000 Juniperus horizontalis, 8 to 12 ins., TT.....	15.00
100 Ilex convexa, 8 to 10 ins., TT....	20.00

All stock heavy, field-grown. Free packing.
Cash with order, please. Ask for our complete
price list. Mail us your want list for special
quotation.

WHERRY'S NURSERIES, St. Marys, W. Va.

LINING-OUT STOCK.

Field-grown.	Per 100	Per 1000
6 to 8 ins.	\$12.50	per 100.
8 to 12 ins.	\$15.00	per 100.
<i>Juniperus communis</i> (English)		
<i>Juniperus communis ashfordi</i>		
<i>Juniperus communis cracovia</i> (Polish)		
<i>Juniperus communis depressa</i>		
<i>Juniperus communis fastigiata</i> (Improved Irish)		
<i>Juniperus communis hibernica</i> (Irish)		
<i>Juniperus horizontalis</i> (Prostrate)		
<i>Juniperus horizontalis glauca</i> (Blue Creeper)		
<i>Juniperus horizontalis plumosa</i> (Andorra)		
<i>Juniperus sabina</i> (Savin)		
<i>Juniperus sabina tamariscifolia</i>		
<i>Juniperus sabina Von Ehron</i>		
<i>Juniperus virginiana kosteri</i>		
<i>Juniperus virginiana</i>		

Cash, please. No packing charge.

BYERS NURSERY CO.
Chase, Ala.

LINING-OUT STOCK.

Per 100	Per 1000
Chinese <i>Pyramid</i> , 1-1, 3 to 8 ins.	\$5.00
Dwarf <i>Oriental</i> , 1-1, 3 to 8 ins.	5.00
Chinese, 1-1, 3 to 8 ins.	4.00
Chinese, 2-0, 3 to 6 ins.	3.00
SPRUCE	
Norway, 2-0, 2 to 6 ins.	2.50
Norway, 2-1, 2 to 6 ins.	4.00
Black Hills, 2-1, 2 to 6 ins.	4.00
Black Hills, 2-1, 2 to 6 ins.	5.00
Colorado Blue, 2-1, 1 to 3 ins.	4.00
Colorado Blue, 3-1, 3 to 6 ins.	5.50
Black, 2-1, 2 to 6 ins.	4.00
Black, 3-1, 6 to 10 ins.	5.00
PINE	
Mugho, 2-0, 2 to 4 ins.	3.00
Table Mountain, 1-0, 2 to 4 ins.	2.50
Scotch, 2-0, 3 to 8 ins.	3.00

Terms, 2 per cent for cash with order.

JOHN G. ZELENSKA
R. 2, Box 293 Grand Haven, Mich.

LINING-OUT STOCK.

Per 100	Per 1000
1500 <i>Taxus cuspidata</i> , XX, 12 ins.	\$27.50
500 <i>Thuja elegantissima</i> , 2 1/2-in. pots.	20.00
300 <i>Thuja hoveyi</i> , XX, 9 ins.	20.00
200 <i>Retinospora plumosa</i> , XX, 12 ins.	25.00
75 <i>Retinospora plumosa aurea</i> , XX, 12 ins.	25.00
500 <i>Juniperus Waukegan</i> , XX, 9 to 12 ins.	25.00
3000 <i>Juniperus pfitzeriana</i> , 2 1/2-in. pots.	20.00

(Above *Pfitzers* now growing in greenhouse.)
300 *Juniperus pfitzeriana*, XX,
6 to 9 ins.

300 *Juniperus pfitzeriana*, XX, 9 ins.

100 *Juniperus pfitzeriana*, XX, 9 to 12 ins.

All above stock shipped bare-root and packed in moss.

Cash with order, please. Packing free.

DAMASCUS NURSERIES
Damascus, Ohio

NORTHERN-GROWN LINING-OUT STOCK.

	Per 100
Mugho Pine, 4-yr. T, 6 to 10 ins.....	\$15.00
Spreading Yew, 1-yr. T, 4 to 6 ins.....	15.00
2-YR. SEEDLINGS	

2-YR. SEEDLINGS.

Per 100	Per 1000
Scotch Pine, 2 to 6 ins.	\$3.00
Norway Spruce, 2 to 4 ins.	3.00
Black Hills Spruce, 2 to 4 ins.	3.00
Mugho Pine, 2 to 4 ins.	3.00

Packing free. Cash with order, please.

ARTHUR CASH NURSERY
Angola, N. Y.

COLORADO BLUE SPRUCE.

Highest-quality Liners and Finished Trees. Bare roots and B&B; packed for shipment. Seedlings, 2-0, \$26.12 per 1000. Transplants, from \$45.50 per 1000. Specimen Finished Trees, from \$35 each. Write for complete price list.

H. W. WEBER
16 Summer St. Weston 93, Mass.

EVERGREENS.

Taxus cuspidata (Spreading yew). 3-year bedded liners, 10 to 12 ins., ready for field planting, \$30.00 per 100, \$250.00 per 1000.

NICK'S NURSERY
Near Louisville Anchorage, Ky.

LINING-OUT STOCK.

Pot size	Per 100
<i>Taxus cuspidata</i> , 2 1/2 to 2 1/2-in.	\$22.50
<i>Taxus hicksi</i> , 2 1/2-in.	25.00
<i>Thuja pyramidalis</i> , 2 1/2-in.	20.00
<i>Thuja pyramidalis</i> , Imp., 2 1/2-in.	20.00
<i>Thuja woodwardi</i> , 2 1/2-in.	17.50

SHRUBS.
Viburnum burkwoodi, 2 1/2-in. 35.00
Cash with order, packing without cost.

The HOLLANDIA GARDENS
South Vienna, Ohio

HEMLOCKES.

Nice 2-yr. transplants.	Each
<i>Tsuga canadensis</i> , Canadian Hemlock.	
7 to 4 ins.	\$0.05
8 to 12 ins.	\$0.20
4 to 6 ins.	.07 1/2
12 to 15 ins.	.25
6 to 8 ins.	.15

Write for other bargains in liners. 5 per cent discount for cash.

BOYD NURSERY CO.
P.O. Drawer 71 McMinnville, Tenn.

LINING-OUT STOCK.

Cherry *Laurel*, 2 1/2-in. pots, \$10.00 per 100. Cash with order. No charge for packing.

PITMAN'S NURSERY
Magnolia, Ark.

DOUGLAS FIRS.

8 to 12-inch Douglas Firs. \$7.50 per 100, \$60.00 per 1000.

COASTAL GARDENS
Sheridan, Ore.

FRUIT TREES

A few thousand 3-year-old Apple: Jonathan, Double Red Jonathan, Yellow Delicious, Red Delicious, York, Turley, Wealthy, Rome Beauty, Double Red Rome Beauty, Grimes—11/16-in., 35c; 1 to 1 1/4-in., 75c; 1 1/4 to 1 1/2-in., \$1.15; 1 1/2-in. and up, \$1.75 each, in 1000 lots.

5000 2-yr. Apple, leading varieties, 5/16-in., 15c; 7/16-in., 20c; 9/16-in., 25c each.

A few hundred Pear: Seckel, Duchesse, Bartlett—1-in., 85c; 1 1/4-in., \$1.25 each, in 100 lots.

5000 Amur River North Privet, cut back, many branches, 2 to 3 ft., 9 1/2c; 3 to 4 ft., 13c; 4 to 5 ft., 20c each, in 1000 lots.

500 Hansen Dwarf Cherry, 3-yr., heavy, 3 to 4 ft., 30c; 4 to 5 ft., 60c each, in 1000 lots.

1000 American Ash, 1 1/2 to 2-in., \$1.50; 2 to 2 1/2-in., \$2.25 each.

EGYPTIAN NURSERY & LANDSCAPE CO.
Farina, Ill.

TOP-QUALITY TREES AT OUR LOW PRICES MEAN BIG SAVINGS.

We have several hundred apple in surplus. 1-yr. whips. McIntosh, Early Harvest, Jonathan, Yellow Transparent, Winesap, Yellow Delicious, Stayman, Dbl. Red Delicious: 12 to 18 ins., 7c; 18 to 24 ins., 8c; 2 to 3 ft., 10c; 3 to 4 ft., 15c each in 100 lots.

A few thousand June Bud Peach, ideal for liners or for retail trade. Belle of Georgia, Redhaven, Golden Jubilee, Elberta, Halehaven: 6 to 12 ins., 5c; 12 to 18 ins., 7c; 18 to 24 ins., 8c; 2 to 3 ft., 12c; 3 to 4 ft., 15c each in 100 lots.

Several hundred Plums. 1-yr. June buds. Abundance, Burbank, Kelsey: 18 to 24 ins., 10c; 2 to 3 ft., 15c; 3 to 4 ft., 20c each in 100 lots.

Send cash with order. No charge for packing.

GLOBE NURSERIES
Box 249 McMinnville, Tenn.

PEAR TREES.

Kieffer, Douglas, Lincoln, Richard Peters, Pound, Smith's Hybrid and Patten.

Each	
2 to 3 ft.	\$0.25
3 to 4 ft.	.30
4 to 5 ft.	.40
5 to 6 ft.	.65

All above budded on Calleryana rootstocks and branched.

APRICOTS.

Hungarian, Moorpark, Early Golden and Little Sam.

Each	
2 to 3 ft.	\$0.25
3 to 4 ft.	.35
4 to 5 ft.	.45

All branched. Large branched, 75c each.

Packing free.

FITZGERALD'S NURSERY,
Stephenville, Texas

REDUCED PRICES.

For first-quality stock.

Per 100	Per 1000
3-yr. 4 to 6 ft.	\$20.00
3-yr. 8 to 6 ft.	\$175.00
3-yr. 8 to 6 ft.	25.00

This block of apple trees consists of about 5,000 trees, well branched and free from disease.

Chinese Chestnut trees, transplanted in the spring of 1948 to the field. 1 to 2 ft., \$50.00 per 100; 2 to 3 ft., \$60.00 per 100; 3 to 4 ft., \$70.00 per 100; 4 to 5 ft., \$80.00 per 100. About 7,000 trees.

Free boxing and packing. If you come with your truck we will take off what it would cost you to pack.

HOME NURSERY CO.
Fort Gay, W. Va.

CHERRIES—Good height—well branched. MONTMORENCY.
Size 9/16-in., 60c ea. Size 11/16-in., 70c ea.
BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

FRUIT TREES—Continued

PECAN TREES.
Pecan trees grown on our better rootstocks. Carefully hand-dug, stake-trained trees. Sure to please.
Each per 100
2 to 3 ft. \$1.10 \$0.90
3 to 4 ft. 1.20 1.10
4 to 5 ft. 1.40 1.30
Varieties: Burkett and Stuart in 2 to 3 ft. and 3 to 4 ft. sizes only. Meyhan and Schley, all sizes. Prices F.O.B. Goldthwaite, Tex. Write for complete list of new low prices on fruit and pecan trees.

COCKRELL'S RIVERSIDE NURSERY
Goldthwaite, Texas

AN OPPORTUNITY IN TANE-NASHI PERSIMMONS! Mention American Nurseryman in your order and get 1000-rate price on order of 50 and up. Our top-quality trees.

Per 100 Per 1000
2 to 3 ft. \$55.00 \$500.00
3 to 4 ft. 70.00 650.00
4 to 5 ft. 90.00 850.00
Cash from new customers, please.

GLEN SAINT MARY NURSERIES CO.
Glen Saint Mary, Fla.

PECANS.
Stuart, Mahan, Success, Moneymaker, Moore, Burkett, Schley, Western Schley and other popular and profitable catalog items. Thomas Black and Wilson Wonder English Walnuts, Eureka and Tanenashi Persimmons, Everbearing Fig Trees. Write for advance trade list.

ARP NURSERY CO.
Box 567 Tyler, Texas

APPLE TREES.
3-yr., good calliper. Each per 100
3 to 4 ft. \$0.20 \$0.15
4 to 5 ft.25 .20
5 to 6 ft.35 .30
Red Delicious, Yellow Delicious, Jonathan, Yellow Transparent, Stayman.

BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

GROUND COVERS

EUONYMUS RADICANS VEGETUS.
Strong rooted cuttings. Per 100 Per 1000
..... \$8.00 \$75.00
PLANE-VIEW NURSERY
Newport, R. I.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS.
From Hardy Northern-grown Shrubs and Trees. Delivery now. From our own plantings and blocks checked yearly for accuracy. Cut 7 inches.

Per 1000
Aronia melanocarpa 4.00
Cornus paniculata 4.00
sibirica 4.00
lutea (yellow bark) 6.00
amomum 4.00
Forsythia intermedia 3.00
spectabilis 3.00
Elder, Golden 6.00
Cutleaf 4.00
Red-berried 5.00
canadensis 3.00
Hydrangea P.G. 5.00
Hydrangea A.G. 5.00
Privet, Amur 3.00
Regel (true) 3.00
Ibota 3.00
Honey suckle, morrow 3.00
bella albid 3.00
bella rosea 3.00
tat. rosea 4.00
korolkowi 5.00
zabeli 4.00
syringantha 5.00
maacki 4.00
Diervilla trifida 4.00
Philadelphus grandiflorus 3.00
Mt. Blanc 3.00
Bouquet Blanc 3.00
lemoinei 5.00
Physocarpus opul. aureus 3.00
Physocarpus opul. nanus 3.00
Sorbaria sorbifolia 3.00
Spiraea billardi 3.00
froebeli 3.00
thunbergi 3.00
vanhouttei 3.00
trichocarpa 3.00
Snowberry, White 3.00
Lilac, rothomagensis 5.00
Viburnum dentatum 4.00
Poplar, Lombardy 3.00
Willow, Niche 3.00
Wisconsin 3.00
Golden 3.00
Pussy 3.00
Packed free. Cash with order, please. Delivery in good order guaranteed.

THE SCOTCH GROVE NURSERY
Scotch Grove, Iowa

KOLKOWITZ CUTTINGS—Beautybush, new wood, 1 in. long, \$6.00; 1000, \$10.00. Express charges collect. Cash with order.
ANDREWS' NURSERY, Box 442, Chapel Hill, N. C.

PITZER JUNIPER CUTTINGS.
6 to 10 ins., long, not trimmed. Well packed, \$10.00 per 1000. Cash with order.
KRONE'S FLOWER SHOP
4221 Grand Ave., Fort Smith, Ark.

1-YR. HARDWOOD CUTTINGS.

Per 100
300 Ampelopsis quinquefolia, 6 to 18 ins. \$4.00
300 Ampelopsis engelmanni, 6 to 18 ins. 4.00
100 Cornus amomum, 12 to 18 ins. 4.00
100 Cornus atonifera, 12 to 18 ins. 4.00
2100 Lonicera tatarica rosea, 12 to 18 ins. 5.00
200 Lonicera xylosteum, 12 to 18 ins. 5.00
400 Philadelphus coronarius, 12 to 24 ins. 4.00
200 Philadelphus grand., 12 to 18 ins. 4.00
100 Philadelphus L. Albatre, 12 to 24 ins. 4.00
100 Philadelphus L. Glacier, 12 to 24 ins. 4.00
100 Philadelphus Bouquet Blanc, 12 to 24 ins. 4.00
100 Rosa multiflora, 2 to 3 ft. 4.00
200 Syringa persica, 2 to 3 ft. 10.00
110 Salix caprea, 2 to 4 ft. 4.00
90 Salix caprea, 4 to 6 ft. 5.00
80 Salix vitellina, 4 to 6 ft. 6.00
1000 rate, 1/2 each less.
ADAMS NURSERY, Inc.
P. O. Westfield, Mass.

GENUINE AMUR RIVER NORTH PRIVET CUTTINGS—from proven "Mother Blocks" all hand-sorted, same grade as we use, so must be correct, 5,000 for \$11.25. Cash, packing free.
ALTA VISTA NURSERIES, Davenport, Iowa

HARDY PLANTS

HARDY PERENNIALS.

Strong, rooted divisions, early spring shipment.
300 at 1000 rate. Per 100 Per 1000
Anthemis Moonlight \$8.00 \$75.00
Becky Aster
Heechwood Challenger, bright red 6.00 50.00
Mt. Everest, good white 6.00 50.00
Sunset Pink, lavender-pink 6.00 50.00
Helenium Gartensoenne, golden-yellow 8.00 75.00
Polemonium Blue Pearl 8.00 75.00
Lychnis viscaria florepleno 8.00 75.00
Chrysanthemum
Algonquin, early dbl. yellow 6.00 50.00
Autumn Lights, copper-bronze 6.00 50.00
Little Goblin, bronze pompon 6.00 50.00
Ruby Pompon, good red 6.00 50.00
Little Goblin, bronze pompon 6.00 50.00
PLANE VIEW NURSERY, Newport, R. I.

POLEMONIUM BLUE PEARL.

Strong, 1-yr., field-grown, for early spring shipment. 300 at 1000 rate.
\$18.00 per 100; \$150.00 per 1000.
A very fine hardy perennial, sun or shade. Blue flowers on 15-in. stems, May and June. When finished blooming, this Polemonium resolves itself into a 6 in. tuft of dark green, fernlike foliage that gives sales appeal even when not in bloom.
PLANE VIEW NURSERY, Newport, R. I.

PERENNIALS.

New and Standard Kinds.
A most modern and complete selection.
New Wholesale List now ready.
Send for your Free Copy Now.
CARROLL GARDENS
Box 15 Westminster, Md.

BLEEDING HEARTS.

Per 100
Dicentra spectabilis, 3 to 5-eye \$25.00
Dicentra spectabilis, 5 to 8-eye and up 35.00
Dicentra eximia, 3 to 5-eye 15.00
Dicentra eximia, 5 to 8-eye and up 20.00
J. HENDRIKS, Grower
Portage, Mich.

COLORFUL MUMS.

Strong field-grown clumps of 150 colorful hardies from our test gardens. Available now for winter propagation. Write today for descriptive price list.

PRAIRIE SOUTHWEST FLORETUM
R. F. D. 1, Box 103 Fall River, Kan.

BLEEDING HEARTS.

Each
Dicentra spectabilis, 3 to 5 eyes \$0.25
Dicentra spectabilis, 5 to 8 eyes35
Well developed, field-grown roots.
CASHAR W. EVANS, Selbyville, Del.

America's Best Source

for Hardy Plants is
THE WAYSIDE GARDENS
Write for Trade List.

Pansies, perennials and rock plants in wide variety. Send for catalog.
PITZONKA'S PANSY FARM
Bristol, Pa.

ROSEBUSHES

ROSES—Ready for immediate or later delivery. Fine assortment of northern-grown roses, all carefully graded and packed. Never grew a finer, healthier crop. Quality is our first consideration. Mentor is near Cleveland, most centrally located for the central states, and close to eastern territory. Save long-distance freight charges and shipping risks. Your inquiries will have our prompt attention.
GERARD K. KYLN, Inc., Mentor, Ohio
Largest Grower of Northern-grown Roses in the Central States.

ROSEBUSHES.

THERE IS NO SUBSTITUTE FOR QUALITY.
We offer to the trade ROSES OF EXCEPTIONALLY HIGH QUALITY and in a good range of varieties. You will notice that our variety list has been shortened. We are sold out on some varieties and do not have very many of others, so may we suggest that you place your order as early as possible while we still have a fairly good selection.

CLIMBERS.

White American Bty.
Caledonia
Konigen Luise
K. A. Viktoria
F. K. Druschki
Snow Queen
RED
Red American Beauty
Red Radiance
Etoile de Hollande
Syracuse
Rouge Mallerin
Poinsettia
Grenoble
Ami Quinard
E. G. Hill
Francis Scott Key
Charles K. Douglas
PINK
Editor McFarland
Briarcliff
Columbia
Pink Radiance
Mrs. Charles Bell
Betty Uprichard

PRICES:

Bare-root, XXX, extra-heavy, jumbo, 40c ea.
No. 1, extra-heavy; 35c ea.
No. 1 1/2, heavy; 27 1/2c; No. 2, 20c ea.
ROOT-WRAPPED for counter trade, add 10c extra per bush, (5 per cent discount on orders of 500 to 1000, and 10 per cent discount on 1000 and up.) **TERMS:** Cash with order or 25 per cent deposit and balance C.O.D. Packed in bundles of ten of grade and variety, and if you want us to break bundles, please add 5c extra per bush.
"Our customers are our best reference."
NEW LONDON ROSES
Overton, Tex.

ROSEBUSHES.

Just a few of the best out of Texas, and that is not bragging either. You will notice that we did not jack up the price just because there was a short crop. The early bird, you know—need we say more?

CLIMBERS.

YELLOW.
Golden Charm
Golden Dawn
McGredy's Yellow
Golden Ophelia
Mrs. P. S. duPont
Luxembourg
Roslyn
Lady Hillingdon
Betty Grace Clark
Yellow Condesa
WHITE.
Caledonia
K. A. Viktoria
White Amer. Beauty
Konigen Luise
Snow Queen
PINK.
Editor McFarland
Briarcliff
Columbia
Pink Radiance
Mrs. Charles Bell
Betty Uprichard

PRICES: No. 1, up to 1000, 30c ea.; 1000 and up, 27 1/2c ea. No. 1 1/2, up to 1000, 25c ea.; 1000 and up, 22 1/2c ea. No. 2, up to 1000, 20c ea.; 1000 and up, 17c ea. (500 at 1000 rate.) **TERMS:** Cash with order, or 25 per cent deposit and balance C.O.D. Sold only in multiples of ten of grade and variety.
"What a difference just a few cents can make."

MARTIN'S ROSE NURSERY

P. O. Box 155 Arp, Tex.

OHIO'S OLDEST NURSERY OFFERS YOU A FINE LIST OF HYBRID TEA ROSES.

Per 100 Per 1000
No. 1 \$37.50 \$350.00
No. 1 1/2 32.50 300.00
Ami Quinard (pink) 32.50 300.00
Etoile de Hollande (white) 32.50 300.00
(red)
K. A. Viktoria (white)
Golden Salmon (yel.)
Luxembourg (yellow)
Roslyn (yellow)
Condesa de Santiago (multicolor)
Taliman (multicolor)
Paul's Scarlet (red)
Ideal (red)
Golden Salmon
Triomphe Orleansais (cherry-red)

Est. 1877
CALL'S NURSERIES, Call Rd., Perry, Ohio

ROSEBUSHES—2-yr. plants, grown right, graded right, packed right. Very complete assortment varieties. Ask for price list and book your requirements now.
ROSEOMONT NURSERIES
D. L. Thompson, Mgr.

Box 839 Tyler, Tex.

ROSES.

The newest varieties of Roses, Hybrid Teas, Everblooming, Floribundas and Dwarf Polyanthas in the best novelties.

Large quantities of greenhouse varieties which can be imported to America, remaining under the phytosanitary control for two years.

SPECIAL CONDITIONS

FOR THE FIRST TRIAL ORDER.

Price: \$20.00 per 100, budded on Rosa canina, free European port, free packing with order of 5,000 bush roses.

Novelties: \$1.00 each.

30,000 Peace available.

ALFRED LAMERSCH (Est. 1871)

23 Rue de Beggen

Dommeldange, Luxembourg

NORTHERN OHIO FIELD-GROWN ROSES.

Write for list.

LESTER F. SQUARE NURSERIES

Wholesale Growers

Painesville, Ohio

SEEDS

FRESH 1949 CROP SEEDS.

	Per lb.
Longleaf Pine, Pinus palustris.....	\$3.00
Slash Pine, Pinus caribaea.....	5.00
Chinquapin, Castanea pumila.....	1.50
Ilex glabra, smooth-leaved Holly.....	.75
Ilex vomitoria, yaupon.....	1.50
Juglans cordia, Jap. Walnut.....	.60
Cornus florida, White Dogwood.....	.75
Pecan, small.....	.25

STOVALL NURSERY Leakeville, Miss.

FRESH COLLECTED, 1949 CROP.

	Per lb.
Cornus florida, dried berries.....	\$0.75
Viburnum dentatum, dried berries.....	.75
Ilex opaca, fresh seed berries.....	.65
Ilex opaca, clean seeds.....	3.00

R. D. 1 WILLIAM J. WRIGHT Bridgeton, N. J.

SEEDS.

Dried Nandina berries 1949 crop. 1 to 4 lbs., \$2.75 per lb., 5 lbs. and over, \$2.50 per lb. Express charges collect. Cash with order.

ANDREWS' NURSERY

Box 422 Chapel Hill, N. C.

SHRUBS AND TREES

SHRUBS.

	Per 100
BALTIC IVY	
Out of flats, T.....	\$ 16.00
2 1/2-in. pots.....	20.00
EUONYMUS PATENS	
6 to 9 ins., T.....	10.00
LILAC, PERSIAN	
2 to 3 ft.....	35.00
PLUM, NANTAI	
2 1/2 to 3 1/2-in.....	30.00
PRIVET, AMUR RIVER NORTH	
12 to 18 ins.....	5.00
PRIVET, REGAL	
12 to 18 ins.....	18.00
PYRANCATHA LALANDI	
Out of flats, T.....	20.00
WILD GRAPE	
15 to 18 ins.....	3.50

TREES.

	Per 100
HACKBERRY	
3 to 4 ft.....	40.00
4 to 5 ft., T.....	60.00
OAK, PIN	
3 to 4 ft.....	60.00
8 to 10 ft., TT.....	300.00
1 1/2 to 1 3/4-in., TT.....	375.00
POPLAR, LOMBARDY	
3 to 4 ft., 1-yr.....	7.50
4 to 5 ft., 1-yr.....	20.00
4 to 5 ft., 2-yr., well branched.....	25.00
5 to 6 ft., 2-yr., well branched.....	35.00
WALNUT, BLACK	
4 to 5 ft.....	10.00
5 to 6 ft.....	15.00
C.O.D. shipments must be accompanied by 25 per cent cash. Packing and boxing at cost.	
NEBRASKA NURSERIES, Inc.	
4815 "O" St. Lincoln 8, Neb.	

LINING-OUT STOCK.

1-yr. Seedlings.

	Per 100
935 Ampelopsis heterophylla,	
6 to 12 ins.....	\$4.50
1500 Berberis koreana, 1 to 3 ins.....	2.00
300 Berberis koreana, 3 to 12 ins.....	3.00
15000 Berberis thunbergii, 1-yr.,	
3 to 9 ins.....	.75
8750 Berberis thunbergii, 2-yr.,	
15 to 24 ins.....	2.00
400 Catalpa speciosa, 12 to 24 ins.....	4.00
800 Celastrus orbiculata, 4 to 6 ins.....	2.00
1750 Cornus florida, 3 to 6 ins.....	2.00
2700 Cornus florida, 6 to 12 ins.....	5.00
1350 Cydonia japonica, 4 to 6 ins.....	3.00
1650 Cydonia japonica, 6 to 18 ins.....	6.00
1050 Lindera benzoin, 2 to 4 ins.....	2.00
400 Lindera benzoin, 4 to 6 ins.....	3.00
600 Syringa villosa, 4 to 6 ins.....	2.00

ADAMS NURSERY, Inc.

P. O. Westfield, Mass.

RED JAPANESE MAPLE SEEDLINGS.

Carefully selected for good red color.

	Per 100
Acer palmatum atropurpureum	
10 to 13 ins., XX.....	\$40.00
8 to 10 ins., XX.....	30.00
6 to 8 ins., XX.....	25.00
ELWOOD HUBBS	
204 Delaware Ave. Palmyra, N. J.	

NURSERY-GROWN STOCK.

Cornus florida.

White Flowering Dogwood.

	Per 100	Per 1000
6 to 12 ins., s.....	\$2.50	\$20.00
12 to 18 ins., s.....	3.50	30.00
18 to 24 ins., s.....	4.50	40.00
2 to 3 ft., br.....	\$0.20 ea.	...
3 to 4 ft., br.....	.25 ea.	...

Ligustrum sinense.

Amur River South Privet.

	Per 100	Per 1000
6 to 12 ins., s.....	4.50	45.00
12 to 18 ins., s.....	6.00	60.00
18 to 24 ins., s.....	10.00	100.00

Juniperus virginiana.

Red Cedar.

6 to 9 ins., tr., x.....

9 to 15 ins., tr., x.....

15 to 18 ins., tr., x.....

18 to 24 ins., tr., x.....

All stock below is first-quality, collected

stock.

Tauca canadensis.

Canadian Hemlock.

4 to 8 ins., s.....

8 to 12 ins., s.....

12 to 18 ins., s.....

18 to 24 ins., s.....

Ilex opaca, American Holly.

Kalmia latifolia, Mountain Laurel.

Rhododendron maximum, Rosebay Rhodo.

4 to 8 ins., s.....

8 to 12 ins., s.....

12 to 18 ins., s.....

18 to 24 ins., s.....

CUMBERLAND PLATEAU NURSERY

York Route Crossville, Tenn.

HYDRANGEAS.

Well branched, healthy French Hydrangeas grown in gallon cans, 5 or more branches per plant. Shipped 4 plants per carton.

\$6.00 per dozen.

F.O.B. Scottsville.

VERHALEN NURSERY CO.

Scottsville, Texas

Your Profits Grow in Verhalen Plants.

HEDGE PLANTS.

Strong, 1-yr., field-grown plants.

California Privet

Rooted cuttings.....

Grafting size.....

6 to 12 ins., 2 br.....

12 to 18 ins., 2 br.....

12 to 18 ins., 3 br.....

18 to 24 ins., 2 br.....

18 to 24 ins., 3 br. and up.....

Row-run, as they are pulled.....

5 per cent discount for cash with order.

Our new catalog mailed on request.

BOYD NURSERY CO.

P.O. Drawer 71 McMinnville, Tenn.

Russian Olive Seedlings.

6 to 12 ins., 1-yr.....

12 to 18 ins., 1-yr.....

18 to 24 ins., 1-yr.....

2 to 3 ft., 1-yr.....

Chinese Elm Seedlings.

12 to 18 ins., 1-yr.....

18 to 24 ins., 1-yr.....

Silver Maple Seedlings.

12 to 18 ins., 1-yr.....

18 to 24 ins., 1-yr.....

R.R. 1 FRANK MILLER NURSERY

Manhattan, Kan.

CHINESE ELM TREES.

Good, straight, Western-grown elm trees.

8 ft. and better.....

Per 10

\$12.50

VERHALEN NURSERY CO.

1114 So. Beckley

Dallas, Texas

Scottsville, Texas

Your Profits Grow in Verhalen Plants.

TAXODIUM DISTICHUM—We can furnish this scarce and beautiful tree in sizes

2 to 4 ft. and up to 7 ft., B&B. Our plants

are bushy and straight.

ACER SACCHARUM—We have many thou-

sands of these in all sizes from 3 to 12 ft.

The finest lot we ever saw.

THE WING NURSERIES

Mechanicburg, Ohio

POPLAR TREES

Chinese Lombardy, 4 to 5 ft., 1-yr.....

Lombardy, 8 to 10 ft.....

Lombardy, 6 to 8 ft.....

Lombardy, 4 to 5 ft.....

Lombardy, 2 to 3 ft.....

PONZER NURSERY

Rolla, Mo.

CHINESE ELM.

Per 100 Per 1000

3 to 4 ft.....

2 to 3 ft.....

18 to 24 ins.....

12 to 18 ins.....

6 to 12 ins.....

CLINTON NURSERY & GHSE, Clinton, Okla.

ORNAMENTAL TREES.

Hard Maples, American Elms, Sycamores.

4 to 6 ft., 25c ea.; 6 to 8 ft., 60c ea.

8 to 10 ft., 90c ea.; 10 to 12 ft., \$1.15 ea.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

REMOVAL SALE.

On 20 acres of nursery stock. Medium to large sizes of 46 different varieties including Norway Maples, Taxus, Arborvitae, Ginkgo, Oaks and Lindens. Write us for our price list.

SWAN RIVER NURSERY

615 E. Main St. Patchogue, L. I., N. Y.

CHINESE ELM SEEDLINGS.

Per 100 Per 1000

2 to 3 ft.....

4 to 5 ft.....

6 to 8 ft.....

BLUE RIDGE GARDENS

Route 4 Roanoke, Va.

MAGNOLIA GRANDIFLORA SEED-

LINGS, 2 to 5 ins., 1-yr. stock, field bed-

grown, partial shade, \$65.00 per 1000. 250

at 1000 rate. Cash; packing free. Shipment

now until about April 10.

HARWELL NURSERY Van Buren, Ark.

PUSSY WILLOW CLUMPS.

5 to 6 ft.

\$75.00 per 100. P.O.B. Monroe, Mich.

GARDEN CENTER NURSERY SALES

1600 N. Monroe Monroe, Mich.

VINES

GRAPEVINES.

Concord, 2-yr., No. 1, \$45.00 per 1000.

BENTON COUNTY NURSERY CO., Inc.

Rogers, Ark.

SUPPLIES

Increase Your Profits With

PLANT COVER NETS.

Stop plant and seedling losses. Use plant cover nets for year-round plant protection. Perfect for shade; protect plants from frost, snow and hail. Keep out birds, pests. Nets guaranteed new, perfect condition. Mildew-proof, water-resistant, rot-resistant. Last 3 to 5 years—very economical. Available in 3 convenient sizes. F.O.B. nearest of 6 convenient shipping points over the nation. Less than 1c per sq. ft. Order yours today!

45x45-ft., \$19.75 each

36x44-ft., 14.75 each

29x29-ft., 7.95 each

G.I. SURPLUS DISTRIBUTING CO.

P.O. Box 943 Dept. AN 1-15 Austin, Tex.

DAHLIA OR TREE LABELS.

Priced per 1000

3 1/2 x 5 ins., notched, not wired.....

3 1/2 x 5 ins., wired, copper.....

POT LABELS.

4 x 5 ins. (cartons 1000 each).....

5 x 5 ins. (cartons 1000 each).....

6 x 5 ins. (cartons 1000 each).....

Priced per carton.

8 x 5 ins. (cartons 500 each).....

10 x 5 ins. (cartons 500 each).....

GARDEN STAKES.

Priced per carton.

8 x 1/2 ins. (cartons 250 each).....

10 x 1/2 ins. (cartons 250 each).....

12 x 1/2 ins. (cartons 100 each).....

Our labels are perfectly white and smooth

on both sides and are pronounced by growers

the best and most economical.

YOHO & HOOKER Youngstown 2, Ohio

Made from a good grade of Southern Yellow Pine, since Cypress is not available.

Standard specifications, inside measurements.

KNOCK-DOWN FLATS.

16x12x2 1/2.....

16x14x3.....

20x14x2 1/2.....

20x14x3.....

22 1/2 x 15x2 1/2.....

22 1/2 x 15x3.....

All other sizes quoted on request. Prices

F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight

to any point is a small item per Flat. Our

Flats are the best. Why pay more? Our

quality guaranteed. Attach check to order.

We make mixed shipments of flats, plant

SUPPLIES—Continued

Now is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, galvanized with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 6 ft. wide, containing 450 sq. ft. Inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

H. M. OWEN E. A. FARLEY
P. O. Box 946 3333 Gentilly Blvd.
Columbus, Miss. New Orleans, La.

ELECTRIC PROPAGATING KITS, FOR GREENHOUSE BENCHES OR HOT-BEDS—Each contains long-lasting HEAT-SUM CABLE, Soil Thermostat, Pilot Lamp and Thermometer.

Sq. Ft.	Length and	No. Units	Price
Unit Heated Watts	Volts		
A 20 200	110	1-60 ft.	\$18.93
B 40 400	110	2-60 ft.	23.83
D 80 800	110	1-300 ft.	32.43
E 150 1500	110	1-500 ft.	48.93
F 300 3000	220	1-1000 ft.	76.30

COLDFRAME FROST PROTECTION—Same equipment will protect 50 PER CENT MORE AREA. LITERATURE ON REQUEST.
L. N. ROBERSON CO.
1539 East 103rd St. Seattle 55, Wash.

MICHIGAN PEAT.
"HIGH NITROGEN-QUALITY PEAT"
Reliable, efficient, economical, 38 per cent organic, pH 4. Serving leading nurseries for over 30 years. Fine medium and coarse grinds. OUR BAGS ARE HUGE! Carloads, truckloads, bulk and bagged.
2 to 100 bags (4 to 8 bu.), only \$1.50 ea.
F.O.B. Capac, Mich. Dealer franchises open. Tests prove M.P. does a better job cheaper. WHY PAY MORE? Order today!
MICHIGAN PEAT, Inc.
267 Fifth Ave. New York 16, N. Y.

NURSERY REQUISITES.
Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders.
Catalog on request.
Since 1900.

TYSON ORCHARD SERVICE
Flora Dale (Adams County), Pa.

COLDFRAMES.
Several hundred cypress coldframe sash. Good sound wood, possibly some broken glass. Truck shipments only. \$3.50 each, loaded on your truck at Athens, Ga. \$3.25 each, F.O.B. truck Norfolk, Va.
EVERGREEN LANDSCAPE SERVICE
Athens, Ga.

MINNESOTA WHITE CEDAR FLATS.
12x16x2" \$16.24 per 100
14x20x2" 20.00 per 100
14x20x3" 23.00 per 100
Other sizes quoted on request. Also crating and other lumber. Aspen and Pine, F.O.B. Cook, Minn. Please attach check.
H. C. HILL & SONS, Cook, Minn.

PEAT MOSS.
Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel, 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.50 each; 10 or more, \$1.50 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

HARDWOOD CUTTING MACHINES.
Save time, save labor, save money. Use Wilson's Hardwood Cutting Machine to make up your cuttings. Cutting blades made of heat steel, sharpened and will keep a keen cutting edge. Particulars on request.
RUSSELL WILSON
Winnabro, Tex.

BLACK MAGIC PEAT MOSS.
Mixed with soil for potting plants. Aerates, lightens soil and holds moisture. Keeps plants flourishing.
90c per bu., 10 bu. for \$7.50. F.O.B. Rogers, Ark.
BENTON COUNTY NURSERY CO., Inc.
Rogers, Ark.

WISCONSIN'S QUALITY SPHAGNUM MOSS.
Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better.
Trucked when feasible.
WARRENS MOSS CO., Box 7, Warrens, Wis.

PRINTING.
Full-color printing of catalogs, pamphlets and folders. Full-color picture tags and labels of Roses, Fruits, etc., for individually wrapped Nursery stock. Samples available.
THE COLOR PRESS
Winnabro, Tex.

HIGH NITROGEN HORTICULTURAL PEAT.
Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 25 bags or more, \$1.00 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

TREE DIGGERS.

The Tree Digger gets all the roots with your Fruit Trees, Shade Trees, Flowering Shrubs, Rosebushes, etc. Nursery stock properly dug with all the roots means satisfied customers. Particulars on request.
RUSSELL WILSON
Winnabro, Tex.

ROPER HIGH-SPEED HOLE DIGGER.
24-in. blade will mount on International H or M. New condition, \$150.00.
LONGVIEW NURSERY
Prairie View, Ill.

GIBRALTAR Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks, 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N. Y.

SPHAGNUM MOSS.
Write for prices on burlapped and wire-bound bales.
THOMAS RESHEL City Point, Wis.

PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders. Samples sent.
J. GARLAND HILL, Dept. A, Seaford, Del.

PAY LESS FOR WOOD LABELS. High quality, fully guaranteed. Write for prices and samples. ANTHONY & Co., Escanaba, Mich.

If you don't find it listed here Try a Wanted ad in the next issue of the American Nurseryman.

WANTED

WANTED.
5000 Euonymus and Viburnum in lining-out sizes; also a few thousand liners in Beautyberry, American Holly, Japanese Dwarf Maple, Sweet Gum, Hydrangeas, Spirea, Lonicera, Barberry, Hackberry, Eoliana Poplar, Blue Spruce, Concolor and Douglas Fir, Upright and Spreading Yew.
EGYPTIAN NURSERY & LANDSCAPE CO.
Farina, Ill.

NURSERY STOCK WANTED.
Azalea Mucronulatum.
Size, 12 ins. and up.
Vine minor, Bowles variety.
Field clumps.

THE PETER CASCIO NURSERY
2600 Albany Ave. West Hartford 7, Conn.

WANTED.
10,000 each, Canadian Hemlock, 6 to 12-in. transplants, and Colorado Blue Spruce, 4 to 8-in. transplants.
SUNCREST EVERGREEN NURSERIES
Box 643 Johnstown, Pa.

WESTERN WASHINGTON HORTICULTURAL MEETING.

[Concluded from page 14.]

ing at the northern border of the native zone.

In the northwest especially, Mr. Mulligan pointed out, there are greater possibilities for more types of plants than are usually grown. However, in order to obtain the best results it is necessary to provide ideal conditions through providing ways for cold air to drain away from the planting site. Excess water must also be allowed to drain. Culture during the season is also important. Watering during the late summer and early fall should be avoided, as should late fertilizing, as these tend to produce a succulent growth easily injured by freezing.

Holly Problems.

Dr. Breakey discussed control measures for holly bud moth, holly leaf miner and soft brown scale. The holly bud moth is represented as one of the worst insects on holly. Eggs are laid at the base of the leaf by the adult moth from late summer on and hatch in late March just as new leaves are forming at the tips of branches. Larvae bind these together and feed on the tip. Good control

has been found from applications of summer oil and nicotine, which have also been found to control soft brown scale of holly.

Holly leaf miner, an increasingly troublesome problem in both ornamental plantings and in commercial holly orchards, Dr. Breakey thought could be controlled by spring applications of summer oil and nicotine or through use of DDT. The small gnatlike adults emerge from the leaves toward the end of February and lay their eggs on the backs of new leaves. On hatching, the larvae tunnel between the upper and lower leaf surfaces, feeding in this area and causing an unsightly yellow blotch.

A talk on the soil requirements of holly by F. T. Tremblay, of the experiment station, was followed by a report by George Eade, state nursery inspector. Mr. Eade has been gathering data on the availability of ornamental plants in Washington. Through statistics he was able to show that most items were available in normal supply. Some few items were reported scarce in various localities.

Symptoms and control of camellia flower spot and the cypress root rot were described by Dr. C. J. Gould in a talk on the control of diseases in ornamental trees and shrubs. Nurseries growing forms of cypress subject to attacks of this disease were warned to propagate only from disease-free stock. The disease starts first on the roots, causing the tops of the plants to turn brown.

The meeting closed with a talk and colored slides shown by Dr. C. J. Clarke, of Cranguyma Farms, Long Beach. Slides showed garden scenes and rhododendrons as they are grown in various parts of England. Dr. Clarke and Mrs. Clarke made a trip to England during the summer of 1949 to attend a conference there on rhododendrons. The conference included a tour of many well known private gardens where rhododendrons are grown as a specialty.

WITH authorized capital stock of \$100,000, Carolina Florists & Landscape Co. has been incorporated at Greensboro, N. C., by J. W. R. Grandy, Leonard Cooper and Edgar Murphy.

LAND has been cleared at Cocoa, Fla., for a branch nursery of the Pampas Nurseries, Daytona Beach, Fla. Owned by C. B. Hughs and managed by C. K. Trumbower, the Cocoa branch will also provide landscape service.

PLANT NOTES.

[Continued from page 18.]

gate from fall-sown seeds and from division in spring.

The Giant Daisy.

I was pleased last fall to find the giant daisy, *Chrysanthemum uliginosum*, in at least two nurseries that I visited. I was pleased not so much because I have been singing its praises for years, but rather because it will make our gardens more pleasant, and anything that does that will boost the sales of commercial plant growers. When summer is on the wane, this plant shows its worth with an abundance of large white daisies on tall stout stems, beautiful in a myriad associations and excellent for cutting, two uses which make for plant sales.

In the ordinary good soil of the hardy border, the giant daisy will grow four or five feet tall, with sturdy stems, clean foliage and a large quantity of flowers; give it the moisture-laden soil that it is said to choose in its native Hungarian home, and it may grow up to seven feet tall, making one of the most spectacular plants in the late summer garden. If this appraisal seems overly enthusiastic to you, increase what has been said by twofold and you will still fall short of the actual worth of the plant, first, as a landscape ornament, and second, for cutting. Fall-sown or winter-sown seeds germinate readily, and the plant may be further multiplied by division.

Sedum Hybridum.

An Ohio correspondent sent me for identification a single branch of a sedum with seed vessels attached. Although I do not ordinarily attempt that task, being too far from a good herbarium, I am glad to do this one, because it represents a stonecrop, *Sedum hybridum*, with which I have been familiar for more years than I care to remember and further because it is one of my favorite landscape sedums.

Although *S. hybridum* has been known for centuries, having been described by Linnaeus in 1753, it is still rather uncommon in gardens, especially under its correct name. That is not as it should be, though, for it is one of the most ornamental of the aizoon section of sedums. Unlike most of that group, it is evergreen, with creeping branches clothed with alternate leaves, generally spatulate, which assume brilliant fall and winter colors. Here it generally has two flowering periods, one in late spring and the other in

Only PREMIER PEAT MOSS can give you Premier results

The Peat Moss
with the "Growing Reputation"

NURSEYMEN who have tried many soil conditioners insist on Premier Peat Moss—because Premier gives them the results they want in soil conditioning, transplanting, propagating, mulching, liner beds.

Premier is not only pure, 97% organic sphagnum peat moss—it is **SUN-DRIED** to preserve its amazing ability to soak up as much as 20 times its weight in moisture. And that is the secret of Premier's superiority as an aid to healthy root growth.

Your customers will like Premier for the same reasons that nurserymen prefer it—and that means extra profits. Packaged in neat, well packed bales. Also 1-bu. and 3-bu. bags for repacking—to give you easy small-package sales! Write today for details.

No weed seeds—no insect life—no fungus. Average pH-4.

Premier Peat Moss from all over the world—the peat moss you need—when you need it! Always top quality, Premier packed with the Premier Certified Seal—in large bales—available from many ports.

PREMIER PEAT MOSS CORPORATION
535 Fifth Avenue, New York 17, N. Y.



SUPER BALE
Veneer or all-burlap



***HANDY BALE**
Veneer or all-burlap



***SPECIAL BALE**
5-ply kraft paper



***JUNIOR BALE**
5-ply kraft paper

Identified by the
BLUE BALE HEAD
with certified seal

*Can Be Carried In Any Car

Surgery with a
SPADE
by A. Z. Godwin
See our ad on page 73
JOHN J. MORRISON & SONS, Publishers
LYNCHBURG, VA.

ADVICE WANTED

The organizers of a new Landscape Nursery and Garden Store invite correspondence from potential suppliers. Everything except the land (paid for) is needed.

ABELIA L. N., Box 3542 Akron 10, O.



"Not a Weed Left"

Tend your garden this modern way. Quick, easy; far better. Rotating blades and underground knife destroy weed growth. "BEST WEED KILLER EVER USED." In same operation they break up the clods and crust, aerate the soil, work the surface into a level, moisture-retaining mulch. A woman or boy can use it—do more and better work than 10 men with hoes.

New Improved Models
Roller bearings, tubular steel handle, ventilated filler drum and other new features further add to the pleasure of tending garden with a BARKER. Write for literature, sizes and new low prices.

The
BARKER
Weeder-
Mulcher-Cultivator-
Saves You Time—
Saves You Labor

BARKER MFG. CO. Box 30 David City, Nebraska

late summer, when there appear bright yellow flowers in umbellate cymes.

Unfortunately, *S. hybridum* is more often than not misnamed in gardens, appearing under such labels as *S. kamtschaticum*, *S. middendorffianum* (the specimen at hand came under this label), *S. floriferum* and otherwise, but it may be distinguished from all of these by its creeping habit and from all except *S. floriferum* by its linear sepals. If the inquirer will compare his plant with true *S. middendorffianum* he will see that his hybridum has broader leaves and that his plant has creeping barren shoots while those of *middendorffianum* are more or less erect. There are several other differences, mostly technical, but the ones mentioned serve to set *S. hybridum* apart from all others of the aizoon section.

Anemonella Thalictroides.

The botanists have had such a grand time with the little plant which heads this note that it would be interesting to follow their peregrinations if space were available, but a short quotation from Meehan's "Native Flowers and Ferns" will have to suffice. "The great Linnaeus," he wrote, "believed it to be an anemone, and in this view he was followed by Aiton, Willdenow and most of the older European botanists of America. Michaux first classed the plant with thalictrum, under its present specific name, *T. anemonoides*, and the same classification has been adopted by Darlington, Gray, Chapman and the majority of modern botanists."

It should be noted, however, that the name now generally accepted is *Anemonella thalictroides*, which was given it by Spach, though still another name, *syndesmon*, given it by Hoffmannsigg, is used by some.

The important phase of the plant to the commercial grower, as distinguished from the plant student, is that it is a splendid addition to any list of spring-flowering plants for shade, adding graceful airy foliage of small stature (nine inches) and a myriad small anemone-like flowers to the spring scene. Generally, the flowers are white and not unlike those of the eastern wood anemone, though they vary to rose, and flowers of various degrees of doubleness are found in nature. It is propagated from fall-sown seeds and from divisions of the thickened tuberous roots.

Psephellus Heterophyllus.

If you have become discouraged by the results you have had from

WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: **\$3.00** per inch, each insertion. Liners: **25¢** line; minimum order **\$2.00**

OPPORTUNITY

Profitable nursery business in one of the liveliest sections of the southwest, selling the year-around, mostly retail. Established over 20 years ago by present owner, propagating and growing choice ornamentals for the better garden trade. Profits very satisfactory; can easily be increased by aggressive management. Property consists of 20 acres; 2 sales locations, propagating house; 30,000 sq. feet of lath houses; abundance of shallow water for supplementary irrigation. Adequately staffed with excellent personnel. Membership in local, state and national trade organizations.

This is a first-class proposition. Sales records and income tax reports available for past decade; can stand closest investigation. Owner will sell outright or consider taking in one or more partners, qualified to take over active management.

If you have capital, executive ability, with knowledge of horticultural trade, it will be to your advantage to investigate. Write, giving information about yourself, in complete detail, and amount of capital you have to invest. You will then be contacted with fuller details of this business. Write Box 663, care of American Nurseryman.

HELP WANTED

NURSERY MANAGER

Unique opportunity for one or more men (or women) with nursery know-how, of executive ability, to acquire part ownership in one of the finest nursery businesses in the southwest. Established by owner over 20 years ago; catering to the best garden trade and enjoying enviable prestige among fellow nurserymen and plant buyers. Doing a nice volume with satisfactory profits, which can easily be increased with more vigorous management.

Proprietor wishes to relinquish active management to younger, more energetic individuals who are stable and financially able to invest.

This is a going concern, now in full swing, beginning new season with large stock of choice plants. We are free from indebtedness or encumbrances. If you desire a secure future, have experience and ability and enjoy creative work, write, giving complete information as to experience, education, age, marital status, religion, etc., and amount of capital at your command, to Box 669, care of American Nurseryman.

WANTED

WILL PAY \$75,000 CASH

For landscape business or garden center, within commuting distance of New York city. State gross sales in answering.

Address Box 645, care American Nurseryman.

FOR SALE

3 greenhouses, 4800 ft. of glass; nursery, 4000 evergreens, etc. Large spring pot plant and landscape business. In a fast-developing community, 25 miles north of Chicago, on busy U. S. Highway 45. 7-room modern home, stoker, hot-water heat. Buy now and take advantage of spring business.

MILL CREEK GARDENS Lake Villa, Ill.
Phone: Villa 2131

FOR SALE

Landscape and nursery business, well located in central Illinois on 4 good highways. Stock of all kinds. Bad health and age are reasons to sell or trade for good income property. Doing a good business; about \$30,000.00 a year. Terms to the right party who wants to buy a good business. Address Box 665, care of American Nurseryman.

FOR SALE

Ornamental nursery in the south for sale at less than half its value. Established 26 years. Selling on doctor's orders because present owner must live near coast. 20 acres of stock and good landscape business will be sold for small down payment to right party, balance easy terms. If you want a good nursery and landscape business cheap, this is your chance. Address replies to Box 674, care of American Nurseryman.

centaureas and centaurea cousins from the Mediterranean regions and western Asia, do not let that experience deter you from trying *Psephellus heterophyllus* when it is offered you. This is one of the centaurea

cousins brought back from the Caucasus regions by E. K. Balls in 1934. The coming of World War II so soon after its introduction stopped its commercial propagation, but I understand from friends on the other

side of the Atlantic that it will probably reach lists this winter.

Most of this class of plants which I have had the privilege of growing have shown little garden value. The subject of this note however, proved in trials here in 1937 and 1938 to be highly attractive with its rosette of lovely leaves, gray above and brilliant white beneath, and 2-inch heads of mauve-pink flowers with white centers. The blooming season was quite long, covering a period of two months commencing in late May. All of these features make *P. heterophyllum* an excellent garden plant for a sunny situation. It also proved to be quite easily satisfied so long as it had perfect drainage. It is best grown from seeds, and these, according to experience here, should be sown in autumn or, if planted in spring, should be frozen for a few weeks.

Spraguea.

An eastern correspondent asks if there is any value in *spraguea*, which he finds offered in a collector's list? Although I doubt if the *spragueas* will ever become popular garden plants, a little space will be given to them in this brief answer. All the kinds that I know, which number three, are rather interesting plants and may or may not be considered beautiful, according to the person viewing them. The one most likely to be seen, *S. umbellata*, has been used sparingly in some quarters as an edging plant and seems quite well adapted to that role. It was not hardy enough for this climate when we had it some fifteen years ago, but, as it blooms the first year from early-planted seeds, we used it as an annual. The flowers, which may be white or almost any shade of pink, come in dense umbels in late summer. A rather pleasing note is added by its peculiar paperlike sepals. It grew to a height of eight to twelve inches tall here, but is said to be dwarfed to two inches in the high parts of its California range. Perhaps material from those mountain retreats would be fully hardy in the east. *S. umbellata* asks little in the way of nourishment, apparently doing best in a lean soil with good drainage. My advice to the inquirer would be to try it on a small scale. Then, if it were liked by grower and his clients, the planting could easily be increased.

FORMAL opening of the modernist new home of Guidroz Nursery & Flowers, 628 East First street, Thibodaux, La., has been delayed because of the illness of Mrs. V. A. Guidroz and her mother.

BALL Better PLANT BANDS and PlanTrays

For Bedding Plants . . .
Chrysanthemums . . Perennials
Nursery Stock . . Carnations
Vegetables

EASIER—Time Saved is Money Saved.
Quickly opened—Completely assembled
—Rapidly filled—Hold much more soil
than pots of equal diameter.

BETTER—Made of decay-resisting veneer
for longer life.

Make ideal dozen-plant units in BALL
PlanTrays for retail sales.

Send for samples and circular.

PRICES

BALL BETTER PLANT BANDS

F.O.B. Midwest factory or West Chicago.

To save delay be sure to specify which way to ship—Express, Freight or Truck. This is important. Bands sold only in units as listed below. Quantity discounts: 2000 to 24,000 net; 26,000 to 50,000 5 per cent; 52,000 to 100,000 10 per cent; 102,000 to 200,000 12½ per cent. Write for prices on larger quantities.

Following sizes put up in
units of 2000 only.

	Per 1000
1¼ x 2.....	\$3.95
1¼ x 2½.....	4.20
2 x 2.....	4.10
2 x 2½.....	4.70
2 x 3.....	4.95
2½ x 2½.....	5.10
2½ x 3.....	5.30

Put up in units of 1000 only.

	Per 1000
3 x 3.....	\$5.45
3 x 4.....	6.35
4 x 3.....	6.30
4 x 4.....	7.40

Made extra-heavy—put up
in units of 250.

	Per 1000
4 x 6.....	\$15.80
6 x 4.....	16.00
6 x 6.....	21.00
6 x 9.....	28.00

Following sizes available F.O.B. Seattle, Washington, at
10 per cent over West Chicago prices: 1¼ x 2½, 2 x 2½,
2 x 3, 2½ x 2½, 2½ x 3.

Geo. J. Ball, Inc.
West Chicago, Ill.



Nothing Better—For Large Plants

Many large plants, such as the Buddleia pictured here, can be carried for periods up to a year in the new Ball Jumbo Band.



Young perennials in bands will find a ready sale during spring months.

TIMELY NECESSITIES for Prompt Shipment

- "HOLLANDIA" BURLAP SQUARES
New Material, Soft, Easy to Tie; Saves
Time, Labor and Twine.
- REED MATS for coldframes
- "GIBALTAR" Frost Covers

Write for prices; state requirements.

NEW AMSTERDAM IMPORT CO., INC.
122-N Chambers St., New York 7, N. Y.

Horticultural PEAT MOSS
Finely Granulated
High Absorbency



PAY LESS for WOOD LABELS

We specialize in the manufacture of low-cost, high-quality Wood Labels. Supply houses which offer our labels do so at an attractive profit to themselves. Write for samples, prices and discounts. Our labels are fully guaranteed to be satisfactory.

ANTHONY AND COMPANY, ESCANABA, MICH. PHONE 1286

**FOR STRONGER
HEALTHIER SEEDLINGS**
*and more
of them!*

YOU CAN'T BEAT ELECTRIC HEAT

- ✓ It's easier to install
- ✓ More accurately controlled
- ✓ Less costly to use

See your dealer for
**SOIL-HEATING
CABLE**

Gets "lazy
plants" out of
bed earlier!



G-E Soil-Heating Cable sets come in handy 60-foot lengths, enough to heat 36 square feet of hot bed or bench frame. Cable is lead-covered for long life, comes in loops with both ends in an ordinary plug for 110-volt a-c or d-c outlet. 120-foot sets are available for 220-volt operation, and bulk cable for large installations. Thermostat also available for holding bed temperature anywhere up to 100°F.

Send for this **FREE**
Soil Heating Bulletin
GEA-5278. General
Electric Co., Sec. 674-7,
Schenectady 5, N. Y.



GENERAL ELECTRIC

HARDINESS OF NURSERY STOCK.

[Continued from page 9.]

Texture and form are other things that we look for in a tree or shrub. Generally shrubs with coarse leaves and stems are best used in the back of the shrub border, while shrubs with fine-textured leaves are selected for the foreground and for the foundation planting. Form is as variable as the plants concerned. Each has its own peculiar form and each in its own way has a place in the planting. Usually we look for plants with upright form for the corner of the house. Under the windows we need something that is low-growing. For the rock garden we need the creeping forms.

Often we shy away from the native shrubs because they lack the form and symmetry that we associate with a good landscape shrub. These same shrubs, grown in the open with good care may become far more attractive than they were in the wild.

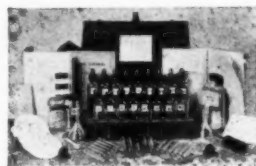
We might ask ourselves why we have literally hundreds of varieties of such shrubs as the lilac and the mock orange while we have few or no recognized varieties of our native shrubs such as the gray and the pagoda dogwood. The answer is, of course, in the length of time that these shrubs have been under cultivation and careful observation. The fact that variations exist among our native shrubs is well known. However, when these variations do occur, they generally go unnoticed and may become lost through natural competition. To cite some of the variations that do exist, all we need do is examine some of the few native trees and shrubs that have entered the nursery trade. Over thirty varieties of eastern red cedar and fifty varieties of northern arborvitae are cultivated. The red-leaved sport of the common chokecherry has but recently been introduced, and a yellow-berried form of the buffalo berry has been selected at the Morden station.

Let us look at some of our native trees and shrubs that might serve as useful landscape materials. Ash, basswood, birch, bittersweet, bladdernut, buffalo berry, burning bush, cinquefoil, dogwood, elder, elm, hackberry, hickory, hawthorn, honeysuckle, maple, mountain ash, mountain holly, serviceberry, silverberry, snowberry, sumac, oak, ninebark, viburnum, walnut, willow and winterberry are but a few that are suitable for landscape planting. Among this list we recognize many that are grown and sold by our nurs-

Simplex SOIL TESTING

Quantitative as well as Qualitative
(results in ppm and pounds)
● ACCURATE ● EASY
● INEXPENSIVE ● QUICK
EVERY CROP GROWER SHOULD
KNOW HIS SOIL

The exact knowledge gained by Simplex Soil Testing pays big dividends, making the cost of the equipment insignificant.



The Complete

SIMPLEX SOIL TEST OUTFIT

100 to 300 tests can be made for each of the following soil chemicals:
Nitrates Phosphorus Potassium
Acidity Magnesium Iron
Aluminum Sodium Calcium
Ammonium Nitrites Sulphates
Carbonates Chlorides Manganese
plus 4 reserve tests and tissue tests for Nitrates, Phosphorus and Potassium. Packed in a strong metal chest equally adaptable to field and office use. Only \$36.00 complete. F.O.B. Cleveland.

The Junior

SIMPLEX SOIL TEST OUTFIT

Contains all the materials and solutions necessary to make 100 to 300 tests for each of 6 soil chemicals plus tissue tests for Nitrates, Phosphorus and Potassium. Only \$25.00 complete.

The Farm

SIMPLEX SOIL TEST OUTFIT

Designed for the smaller grower, it contains 100 tests for 5 elements plus tissue tests for Nitrates, Phosphorus, Potassium. Only \$16.00 complete.

FULL DIRECTIONS AND COLOR CHARTS ACCOMPANY EACH SET. ALL PRICES F.O.B. CLEVELAND.
Soilfax—A test for soil acidity—with complete instructions and equipment for making approximately 100 determinations. \$1.25 per package postpaid.

THE EDWARDS LABORATORY

P. O. Box 2742-C CLEVELAND 11, OHIO

Learn ORNAMENTAL HORTICULTURE

A thorough, constructive home training for employment or advancement in Nursery Operations, Park Supervision or Maintenance, Landscape Designing or Landscape Gardening. Send for Free bulletin. **APPROVED FOR VETERANS.**

NATIONAL LANDSCAPE INSTITUTE

Dept. N-1, 310 So. Robertson, Los Angeles 36, Calif.

NU WAY—SOLUBLE PLANT FOOD

Formulated by G. T. Newnam

Insure Growth with the Best.

Get our prices—Write today.

NU WAY PLANT FOOD CO., STREATOR, ILL.



E-Z-GARDS

**PROTECT YOUR EVERGREENS,
SHRUBBERY, FLOWERS AND LAWN**

Ornamental design adds to beauty of yard or garden. Self-Supporting—No Stakes or Posts! Easy to set up and just as easy to remove.

WRITE FOR LITERATURE AND
DEALER PRICE LIST

BROADWAY MACHINE & MANUFACTURING CO.
SHELBYVILLE, INDIANA

eries. Many others, however, are little known in the nursery trade.

Before all of the material listed here can or should be grown by nurserymen, there is considerable research needed to select those forms best adapted for landscape use, to determine the best methods of propagation and the conditions under which each will survive. An equal amount of work is needed in testing forms that are not native here, to determine their possible value. The Morden station has done a lot along this line, but tests need to be made in various parts of Minnesota before recommendations can be made. For example, a species of cotoneaster with red berries fruited this year in our shrub jungle at the university farm that shows much promise. It should be tested over the state.

There are, no doubt, many possibilities for crossing some of our hardy native species with some of the better known eastern and European forms that may lack hardiness. It would be interesting to know whether our native pagoda dogwood would cross with the pink-flowered dogwood of the east and what the result might be. Could we cross our native black currant with the red-flowered currant growing native on the west coast and get a hardy red-flowered currant? These and other problems await the plant breeder.

SELF-LOADING SPRAYER.

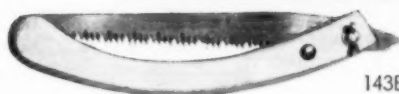
A new wheelbarrow-type, self-loading, compressed air sprayer has been announced by Champion Sprayer Co., Detroit. According to Vincent Santarelli, president of the firm, powerful insecticides and weed killers can be used with improved security against skin contact and irritation with this machine.

The new model features the Auto-load trade-mark, indicative of the ability of this new compression unit to take on its own liquid as well as air and to simplify the handling of strong solutions. With the Auto-load, the sprayer loads as the pressure is pumped up. One pumping of action of fifty or sixty strokes draws spray solution from the 15-gallon reserve tank on the wheelbarrow into the compression unit and at the same time pressurizes it. Thus, one pre-spraying operation provides continuous spraying of three and one-half gallons at a nearly constant pressure of seventy-five pounds.

In addition to its use as a row crop, vineyard and orchard sprayer, the Champion wheelbarrow model can be used for insect and animal pest control, weed control and liquid fertilizer distribution.



**GET RID OF THE
DEADWOOD
FAST and EASY**
with
GENSCO
BUSHMAN
PRUNING SAWS
(Made in Sweden)



143B

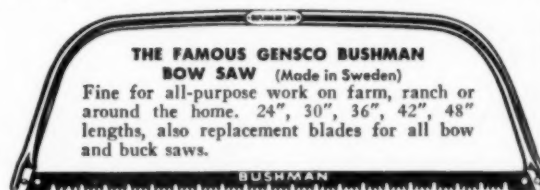
Properly pruned trees, vines and shrubs grow better, bear heavier. To do an improved job of pruning, Gensco offers five groups of saws to fit every need.

Patented tooth arrangement cuts on *forward* and *back* strokes. Swedish steel blades have a razor sharp cutting edge (stay sharp longer) for the smooth cut necessary in good pruning.

Styles include long and short handles, tubular extensions, pistol grips and folding types. Handles are hard polished birch with clear weather proof finish.



141A



**THE FAMOUS GENSCO BUSHMAN
BOW SAW** (Made in Sweden)

Fine for all-purpose work on farm, ranch or around the home. 24", 30", 36", 42", 48" lengths, also replacement blades for all bow and buck saws.

Literature available.

Available from leading Hardware dealers or write direct to:

GENSCO TOOL DIVISION

GENERAL STEEL WAREHOUSE CO., INC. • 1814 North Kostner Avenue • Chicago 39, Illinois



TENSION ENVELOPES for Every Nurseryman's Use

RETURN CORRESPONDENCE POSTAGE SAVER "ADDRESS SAVER" WINDOW

OPEN-END CATALOG SEED PACKET FORM-VELOPE

Illustrated are a few of many Tension Envelopes now in use by Nurserymen. More than sixty years of experience are behind this specialized service. Hundreds of Nurserymen have employed Tension Envelopes to cut postage costs, to protect envelope contents, to save mailing minutes, to prevent mistakes, and to promote sales.

TENSION ENVELOPE CORPORATION
New York 14, N. Y. • St. Louis 10, Mo. • Minneapolis 1, Minn.
Des Moines 14, Iowa • Kansas City 8, Mo.

CHINESE CHESTNUT.

[Continued from page 8.]

found both it and Carr to be difficult to graft.

Honan.

Honan was introduced by Carroll Bush while at Eagle Creek, Ore. It was from the same lot of seeds as Abundance, and scions and later trees were sold simultaneously with Abundance. Fayette Etter, who has made careful comparisons, believes Abundance to be the better variety. The principal difference is in size, with Abundance being somewhat the larger. Also, Honan is slightly less desirable in other ways.

Kuling, Meiling and Nanking.

All three varieties derived from seeds shipped from China by Peter Liu, Chekiang province, early in 1935; Kuling, Meiling and Nanking were of the crop of 1934. Hangchow was the shipping point from which the seeds for Kuling and Nanking were sent, and Hsienting was the mailing point for Meiling. It was from Hangchow, in 1853, that the first Chinese chestnut seeds were sent from that country. At that time, Robert Fortune, an English plantsman, shipped nuts of what he then supposed were the same species as the European chestnut, *Castanea sativa*, to the Himalaya mountains, in India, in the hope of establishing there a new food crop. Hangchow is located at about the same latitude as Jacksonville, Fla. G. F. Gravatt, in charge of chestnut breeding in the United States Department of Agriculture, bureau of plant industry, reports that two Indians visited his office recently and said that, while there are a few chestnut trees in the Himalayas, they do not amount to much. However, they will investigate and report later.

The seeds from Mr. Liu were not particularly impressive, either as to size of nut or flavor, but some of the resulting seedling trees have turned out surprisingly well. Several trees grown at the United State pecan field station, Albany, Ga., began bearing three years later, in 1938. In 1941, three were selected and given varietal names. The original tree named Kuling has since borne 151 pounds of nuts; the one called Meiling, 196 pounds, and Nanking, 205 pounds. Kuling was the only one of the three that bore a crop in 1942.

The original planting, in 1941, consisted of 334 trees set 25x25 feet apart. Sixty trees which made the poorest showing have since been removed. This leaves 274 trees standing in the original planting. In 1947,

EASIER, FASTER WORK

This Garden Shop Hand Truck is so widely used today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery.

IMMEDIATE SHIPMENT

Now you can get this popular truck at once. Speed up work, save labor cost with this practical and especially designed equipment. Sturdy, strong, attractive in appearance, built for many years of profitable service. Order direct, today.

SPECIFICATIONS

Equipped with Jumbo Balloon Tires and Tubes, 12x4 inches.
Specially Designed Curved Nose.
All-Steel Construction, electrically welded.
Weight 46 pounds.
Over-all Length 63 inches.
Over-all Width 27 1/2 inches.
Capacity 28-in. Ball weighing 600 pounds.



The popular Garden Shop
SMALL HAND TRUCK

Write for free illustrated folder.

THE GARDEN SHOP, Inc.

4833 Mission Rd.

Kansas City 3, Kan.

ARIENS-Tiller

BACKED BY OVER 18 YEARS EXPERIENCE



The highest horsepower of all tillers—
9 HP in model B illustrated.

Here is equipment built to do your job—the practical tiller that supplies all the power needed for your operations. ARIENS-TILLER has the greatest forward speed, both low and high gear; positive action multiple disc clutch; full-sized 9/16" electric alloy steel tires. Center shoe and share assembly cuts out middle and tills entire area. ARIENS-TILLER will give you the greatest area coverage at the lowest cost. See your nearest dealer for demonstration, or write today for complete details.

ARIENS COMPANY BRILLION WISCONSIN

MODELS FOR ALL REQUIREMENTS FOR LARGE OR SMALL AREAS...

188 trees bore a total of 6,615 pounds of nuts, the heaviest bearer yielding 108 1/2 pounds. As evidence of the variability among seedlings, in 1946, 173 trees bore and 101 did not.

Since 1943 none of the three has had a crop failure. Nanking has had slightly the largest nuts, with its crops running from thirty to forty-three nuts per pound, as compared with thirty-five to forty-three for Kuling and thirty-eight to forty-three for Meiling. Scions of each variety have been placed in the hands of nurserymen, and already all have become

PLANT COVER NETS

For Year-round Plant Protection

36x44-ft. size only, **\$14.75**

F. O. B. nearest shipping point.

G. I. SURPLUS DISTRIBUTING CO.
P. O. Box 943 AUSTIN, TEX.

available to the general public in this way.

Milford.

Milford has been known for a number of years, but has been grafted little. The parent tree stands in the midst of a rather crowded plant-

ing owned by Frank B. Austin, Milford, Del. Scions have been sent to several nurserymen, but not all have reported.

Stoke (Stoke Hybrid).

Stoke appears to be the result of a natural cross between the Chinese and Japanese chestnuts. The original tree is from a chance nut picked up on the grounds of United States Department of Agriculture, the division of plant exploration and introduction garden, Glenn Dale, Md., where the late Dr. W. Van Fleet did much of his work. The tree was grown by Mr. Stoke, whose attention was soon attracted by its early bearing and early maturing. In southwestern Virginia, the nuts frequently begin to ripen during the third week of August. In appearance the nuts greatly resemble pure Japanese chestnuts. The variety bears well, but the nuts lack palatability.

S-8.

S-8 was the designation given, after Dr. Van Fleet's death, to the parent tree in his planting made at Glenn Dale. The name was derived by combining the row letter and the tree number. It was released by the United States Department of Agriculture with decidedly crossed fingers, for while it was prolific, it was only a shade more palatable than the average Japanese kind. It was, apparently, a crenata x pumila hybrid, bred by Dr. Van Fleet before the superiority of mollissima over crenata was fully realized. Later, S-8 became subject to blight.

Yankee (Connecticut Yankee).

Yankee originated as a chance seedling on the property of E. N. Hunt, Riverside, Conn. It is an introduction of Dr. J. Russell Smith. Nothing more is known of the variety than is contained in his catalog.

Zimmerman.

Zimmerman originated as a 1930 selection made by the late Dr. G. A. Zimmerman, Linglestown, Pa., from a number of seedlings grown from seeds imported by him directly from China. Since the death of Dr. Zimmerman, the identity of the parent tree has been lost. However, the variety has been continued by nurserymen, and about as many trees have been sold of Zimmerman as of any other variety. It is easier to graft than some others, and, while the nuts are a little small, it is a good staple variety.

Potential Varieties.

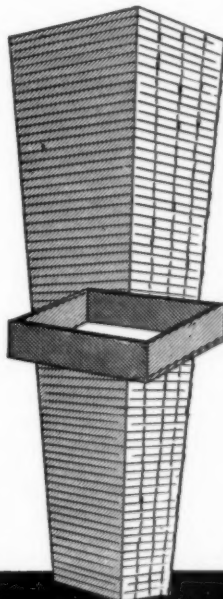
To originate a variety is not difficult, nor is there danger of having

SEED FLATS

SHOOKS IN PART CAR, CARLOAD SHIPMENTS, DIRECT FROM MILL!

Now you can get all the seed flats you want, shipped direct from our own West Coast Mill! Seed flats come as shooks, cut to your specifications and ready to nail together. Full cars, part cars. Order now, or ask for quotation!

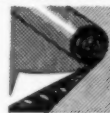
ALSO CELERY BOARDS AND PLANT STAKES!



GLASS
BAR

Heart Redwood or
Heart Cypress Glass
Bar—1-3/8" x 2-1/4".

Or can be made to
your specifications...
send sketch and di-
mensions.



SISALKRAFT
PAPER

For soil sterilization,
bleaching celery,
covering plant roots,
and for winter stor-
age. Roll 13-1/2" x
100'. Also 3'
to 7' width.



BENCH
LUMBER

Heart Cypress and
Redwood Bench Lum-
ber for immediate
shipment. 1" x 6" and
1" x 8" sides and
ends. 2" x 4" joists
and shingles. Order
... or ask for quo-
tation.

DON'T DELAY! WRITE, WIRE, PHONE TODAY!

MID-AMERICA'S LARGEST LUMBER SUPPLIER!

The **DOUGHERTY LUMBER Co.**

CLEVELAND 5, OHIO
Phone Diamond 1200

GREENHOUSES BY ROUGH BROTHERS

We can give you immediate delivery on pipe frame greenhouses. We also have over thirty skilled construction workers.

Fill out and Mail

Name _____
Address _____
How many _____ Width _____ Length _____
Ht. of Eaves _____ No. of Ends _____
No. of Sides _____
Labor ☐ Material ☐

Please send me plans and prices at no obligation to me.

ROUGH BROS. GREENHOUSE MFRS. & BLDRS.

4227 SPRING GROVE AVE.

CINCINNATI 23, OHIO

BURLAP SQUARES AND ROLLED BURLAP

made from practically new, vacuum machine-cleaned, bright burlap, free from holes. Send us your specifications and we will quote you prices.

STERLING BAG & BURLAP CO.
41 Carolina St. BUFFALO 1, N. Y.



ZIP-STAY LABELS

Nurserymen's favorite for forty-five years. Please write for prices and samples.

OHIO NURSERY LABEL CO.
P. O. Box 677 Elyria, Ohio



STAPLED WOOD PLANT BANDS

Sturdy plant bands made of cottonwood, securely fastened with two wire staples for quick setup.

Size in ins.	Per 1000	Size in ins.	Per 1000
1 1/4 x 1 1/4 x 2 1/2	\$4.00	2 1/2 x 2 1/2 x 3	\$4.50
2 x 2 x 2 1/2	4.10	3 x 3 x 3	4.90
2 x 2 x 3	4.40	3 x 3 x 4	5.20
2 1/2 x 2 1/2 x 2 1/2	4.30	4 x 4 x 3	5.20
2 1/2 x 2 1/2 x 3	4.45	4 x 4 x 4	6.00

Shipped promptly from the factory in Illinois.

WOOD PLANT BANDS



"Easi-Off"

Saves time and labor. Bands are removed without cutting; therefore, the dirt ball and roots are not disturbed.

CAT.	Size in ins.	Weight per 1000	Per 1000
No. M-310	1 1/4 x 1 1/4 x 2 1/2	12 lbs.	\$3.75
No. M-320	2 x 2 x 2 1/2	15 lbs.	4.10
No. M-340	2 1/2 x 2 1/2 x 3	20 lbs.	4.50
No. M-350	3 x 3 x 3	21 lbs.	4.80
No. M-360	3 x 3 x 4	40 lbs.	4.95
No. M-391	4 x 4 x 4	40 lbs.	5.60

LIGHT WOOD FLATS

For handling and shipping all sizes of Plant Bands.

	Per 1000
M-370: holds twelve 1 1/4-inch Bands	\$2.95
M-390: holds twelve 2-inch Bands	3.20
M-392: holds twelve 2 1/2-inch Bands	4.20
M-393: holds six 3-inch Bands	3.90
M-394: holds six 4-inch Bands	4.80

Shipped promptly from the factory in Michigan.

BIRD Vita-Bands

VITA-BAND 40: Growers are reporting outstanding results in vigorous well balanced growth. Exclusive nutrient treatment affords a liberal supply of balanced plant food. Transplanting shock eliminated, saving 1 to 3 weeks' setback. Sturdy fiber resin construction. Watering frequency cut 50%. For the longer growing periods of approximately 40 weeks.

VITA-BAND 10: Brings nutrient treatment to the low-priced plant band field. For the shorter growing periods of 8 to 10 weeks.

Size in ins.	Price per 1000 Vita-Band 40	Vita-Band 10
1 1/2 x 1 1/2 x 2 1/2	\$3.00	\$3.00
1 3/4 x 1 3/4 x 2 1/2	3.45	3.45
2 x 2 x 2 1/2	5.10	3.65
2 x 2 x 3	5.90	4.15
2 1/2 x 2 1/2 x 3	6.95	4.75
3 x 3 x 3	8.10	5.65
4 x 4 x 3	...	7.35
4 x 4 x 4	...	8.95

Sold in units of 1000 only.

F.O.B. Chicago, or East Walpole, Mass.

Tom Thumb FLATS

Made of heavy waterproof fiber resinous material. Use with Vita-Bands. The most economical way to sell potted annuals in dozen lots. Build sales and repeat business with easier-to-set-out potted plants in this neat package.

No. 1 for 1 doz. 1 1/4-in. Bands.

No. 2 for 1 doz. 2-in. Bands

Tom Thumb Flat	Per 1000	Combination 1000 Flats Vita-Band 40	Combination 1000 Flats Vita-Band 10
No. 1	No. 2	No. 1	No. 2
\$35.00	\$39.85	\$88.15	\$97.70
\$71.95	\$79.80		

F.O.B. Chicago, or East Walpole, Mass.

AMERICAN FLORIST SUPPLY CO.
1335 W. Randolph St., CHICAGO 7
31 W. 27th St., NEW YORK 1

too many varieties introduced. To have a large number of varieties on trial throughout the country at one time is the quickest and surest way to find which ones are best. Do not wait for nurserymen or state and federal experts to say what you should propagate. Try your own hand at grafting. Work over your poorest trees with scions from your best, and so raise your average, all within your own resources. You should have a test row or a few trees on which you can graft every promising variety that you can obtain.

Dr. Otto Beherend, Erie, Pa., sent in specimen nuts from two trees in the fall of 1948. One was comparatively small and the other of good size. The doctor regarded the larger nut with little favor, because it was not so sweet as the smaller nut. However, it was Chinese, hardy at Erie, reasonably good eating and perhaps a good bearer. For that part of the country it is certainly worth investigating.

West Coast Varieties.

So far, California, Oregon and Washington have contributed little in the way of varieties which are of interest to other parts of the country. Principal advances in that section have been made with European kinds which, to a great extent, have been regarded as American. The first Chinese chestnuts received in this country, from Mr. Myer in 1906, went to Chico, Calif. It was nearly thirty years later that Carroll Bush imported seeds to Oregon from which were developed Abundance and Honan. Several varieties have been selected from the Chico trees, but apparently some confusion exists among them.

State quarantines, as a means of controlling blight, have thus far prohibited the entry of eastern sorts, but since that disease is becoming better understood, there are signs that these artificial barriers may be lifted. The three government varieties from Albany, Ga., were first distributed in 1946 and 1947 to twenty-five or thirty nurserymen, and, from reports received, excellent success was had in grafting. Most nurserymen who received propagating wood now have a few trees for sale. Nuts of the Albany varieties, grown in 1948 by Arthur Gold, Cowen, W. Va., were of practically the same size as those at Albany. The altitude at Cowen is about 2,200 feet, and winter conditions are severe.

The author has been informed by Dr. Harald E. Hammar, associate chemist in charge of the bureau of

"METAMEAL"

Slug Destroyer

Here is the economical yet effective way of destroying slugs and snails. Works like magic! And so easy to use—just moisten and place in small piles along greenhouse benches or garden borders.

Delivered Prices

2-lb. bags	\$1.00 each
4-lb. bags	2.00 each
8-lb. bags	4.00 each
20-lb. bags	9.00 each

IMP (IMPetus)

THE GROWERS' CHOICE

IMP is the improved domestic fertilizer that rivals, if not excels, the leading English brands. Over 1500 commercial growers now find IMP the proper fertilizer for their greenhouse crops. You, too, can see your plants perk up and bloom as never before... and get those extra profits better plants bring! Write for analysis data and full particulars... better still, try IMP now!

F.O.B. New York or Jersey City

56-lb. bag	\$3.50 each
112-lb. bag	6.00 each

3% Discount for cash with order.

Wholesale inquiries invited.

Write for price list and literature on our grass and field seeds—lawn, golf and pasture mixtures—fertilizers and sundries.

GARFIELD WILLIAMSON, Inc.

1072 West Side Ave., Jersey City 6, N. J.

PRINT YOUR OWN POST CARDS

COMPLETE OUTFIT only \$7.50

Amazing results in sales, inquiries and contacts... saves time and money...

very easy to use. GEM STENCIL DUPLICATOR is ideal for Advertising, Announcements, Notices, Labels, Forms, Price Lists—hundreds of uses for every type of business and organization. Comes complete with all supplies, instructions and 60-page Book of Ideas.

Free Trial Offer: Try it before you buy it! Write and a GEM OUTFIT will be sent you postpaid. After 10 days, send only \$7.50 or return the GEM, no questions asked. The GEM must sell itself; you be the judge.

BOND EQUIPMENT CO. • Dept. 129
6633 Enright • St. Louis 8, Mo.

SEND NO MONEY, FREE TRIAL OFFER

CUT YOUR GROWING COSTS

Rejuvenate Your Soil and Grow Big with VITALOAM

Trade Mark

The Choice of America's Finest Growers—from Coast to Coast

—100 PER CENT ORGANIC—

Use No Manure — No Commercial Fertilizer. Apply Vitaloam Once — At Planting Time.

If No Distributor Close—Will Ship Direct

SOIL RESEARCH LABORATORIES, Inc.
531 East Main St. Lancaster, Ohio

GRO-QUICK HEATING CABLE

FOR HOTBEDS—COLD FRAMES—OPEN GROUND

Get Germination Time 2-3. Root Cuttings in 6 Days

Seed Up in 30 Hrs. Transplant 2 Weeks Sooner!

J40A Cable & Therma. for 1 sash \$6.75

\$80A for double sash—36 sq. ft. \$9.00

J40 40 ft. 200 watt. cable only \$2.25

\$80 80 ft. 400 watt. cable only \$4.50

Special cables for beehives, bats, cabinets. Shipped direct

provided if not checked by your dealer. Write:

GRO-QUICK 388 W. Huron St. Chicago 10, Ill.

FREE PLANS
USER REPORTS

plant industry station, at Albany, Ga., that the quality of Chinese chestnuts has been found to deteriorate rapidly unless the nuts are stored at 32 degrees or thereabouts soon after curing.

The illustration on page 8 showing the nut of a Chinese chestnut, and below it the nut of a Japanese chestnut, may help growers to determine for themselves whether or not their chestnut trees are of the Chinese or Japanese types. The Chinese nut is nearly round, has a small basal scar and may or may not have down over the surface. The Japanese nut is considerably pointed, usually of a yellowish-brown color, with almost no down over the surface. The basal scar is usually large, often extending well up the side of the nut. The texture is coarse, and the flavor is decidedly poor until it is cooked. The leaf of the Japanese chestnut is stiffly veined.

HEADS OHIO FORESTRY DEPARTMENT.

Dr. Oliver D. Diller, associate forester of the Ohio agricultural experiment station and assistant professor of forestry at Ohio State University, has been named chairman of the department of forestry to succeed the late Edmund Secrest, whose obituary appears on another page. The announcement was made by L. L. Rummell, director, after approval by the institution's board of control December 12.

Dr. Diller served as forester of the Central States forest experiment station from 1934 to 1937, when he became associated with the Ohio agricultural experiment station. He is currently in charge of strip mining reclamation research.

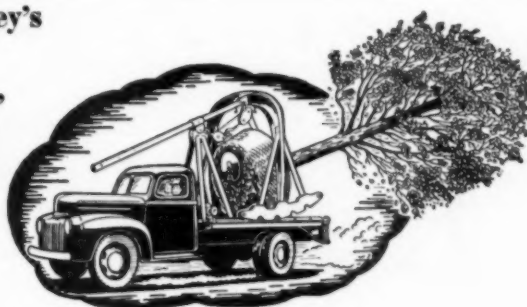
The nationally known arboretum at the agricultural experiment station, at Wooster, which was recently named Secrest Memorial Arboretum, will be under Dr. Diller's supervision.

IN OCTOBER the Miller-Parks Nursery & Landscape Service was started at Santa Fe, N. M., by Dean Miller and Wade Parks, who are building a sales office, lath house and greenhouse on the land they recently purchased.

THE nursery department of the Angelo Floral Nursery, 1016 West Beauregard street, San Angelo, Tex., has been taken over by Mr. and Mrs. Basil Havins. Mr. and Mrs. Leon Lederman will continue the flower shop. The Havins have been in the landscape business at San Angelo for a number of years.

Williams & Harvey's

NEW "ROCKER" MOVER* for BIG TREES



Fits Any Standard Truck Chassis

- Handles up to 12-inch trees.
- "Rocks forward" for balanced load on truck.
- Superstructure quickly removed so truck can be used for other purposes.
- Available in two sizes.

WRITE for details and prices. Let us tell you how this amazing new equipment will save time and make money in your business.

*Rocker Tree Mover is patented. Williams & Harvey.

*Proved in use
by leading
nurseries and
park depts. in
all parts of the
U. S.*

Williams & Harvey Nurseries

P. O. Box 7068, Country Club Station

KANSAS CITY 2, MO.

NURSERY NECESSITIES

RABBIT REPELLENT

Just what you have been looking for. Ready to use: simply paint it on your trees.

Nonpoisonous.

Five-gallon Drum for \$10.00,
F.O.B. Philadelphia.

CRYSTAL BORER REPELLENT

For most species of borers on deciduous trees. Apply as protective measure. Used by leading tree companies.

CRYSTAL NO-DRI

A scientific wax emulsion. Can be applied with spray equipment. Retards and reduces loss of moisture. Permits transplanting out of season.

Write for free booklets.

CRYSTAL SOAP & CHEMICAL CO., Inc.

Department AN
4300 State Road Philadelphia 35, Pa.



SELF-PROPELLED NURSERY SPRAYER

Clearances up to 78 inches.
Sprays Four Rows at One Time.

Cultivator can be attached.
For Information Write:
VICTOR FRIDAY, COLOMA, MICH.

CHARLES SIZEMORE Traffic Manager

319½ Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.

WOOD LABELS

For Nurserymen

DAYTON
FRUIT TREE LABEL
CO.

Ray and Kiser Sts. DAYTON, O.

NURSERYMEN

It attracts—It brings in traffic!

Sells other items as well as **PLANT MARVEL!**

Builds Sales, Profits and Satisfied Customers.

PLANT MARVEL

"feed as you water"

A leader in retail sales because in addition to high quality, it has EYE APPEAL. Beautiful new lithographed 1/2-lb. and 1-lb. containers. A nationally advertised product. Used and sold by leading Florists and progressive Nurserymen. Highest Analysis—12 per cent Nitrogen, 31 per cent Phos. Acid, 14 per cent Potash, plus minor elements and B1. All water soluble. Absolutely no coloidal residue.

Write today for complete details and **FREE Trial Size Package!**



PLANT MARVEL LABORATORIES

12050 Parnell Ave.

Dept. AN-1

CHICAGO 28, ILL.

NURSERYMEN'S

FIRST CHOICE!

12" MODEL—ONLY

\$248

F.O.B. Milwaukee

- Tills, Mulches, Cultivates!
- 9 "Plug-in" Attachments for Spraying, Mowing, Hilling, Seeding, Bulldozing, Snowplowing, other work!
- Also 16"—26" tillers and power take-off models!
- Write Dept. AN-1 for folder and detailed information.



© 1949 MILWAUKEE EQUIPMENT MFG. CO.

NURSERY SQUARES

Samples and Prices
on Request

COLORS SAND—

PEARL CHIPS

TINSELS—DIAMOND DUST

Tear off coupon, paste on post card or letter and mail to

NATIONAL SAWDUST CO., Inc.
53 North 6th St., Brooklyn 11, N. Y.

Please send me free catalog.

Name.....

Address.....

City and State.....

IDEAL GARDEN GADGETS and Handy Items

Midgot Fence

Hose Holders

Plant Stakes

Label Markers

Lawn Guards

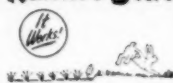
Peony Supports

Row Markers



Send For Folders Today
LANSING SPECIALTIES MFG. CO.
731 N. Hayford St. LANSING, MICH.

Rabbit Scat



PROTECT YOUR PLANTS

the year-around
with Rabbit Scat.
A repellent, not a
killer. Harmless to
plants.

TRADE DISCOUNT

Nurserymen receive 40-25% off retail prices. Rabbit Scat retails for: 6-oz., \$1.00; 1-lb., \$2.50; 5-lb., \$10.00.

Also Dog-N-Cat Scat and Rainbow-Glo, the color intensifier of flowers.

GARDEN CHEMICAL CO.

3101 LUDLOW ST.
PHILADELPHIA 4, PA.

Mention The American Nurseryman when you write.

NEW McLEAN GARDEN TRACTORS

For

- Sickle Bar Mowing • Lawn Mowing
- Plowing - Tilling

\$127.00

UNIVERSAL MANUFACTURING CO.
324 W. 10th St. INDIANAPOLIS 2, IND.

ALL-AMERICA FLOWERS AND VEGETABLES FOR 1950.

Flower winner in the 1950 All-America Selections is a red petunia. Vegetable winners are a squash and a snap bean, with a regional recommendation to a watermelon.

The only flower to win All-America honors for 1950, Fire Chief petunia, has been awarded the A.A.S. gold medal, the first award since 1938. Actually a spectrum red with a glow of scarlet, Fire Chief grows about twelve inches tall and wide, covering itself with large, plain-petaled flowers from early spring until killing frosts in late fall. In the lower south or indoors it lives on through winter. Though treated and grown as a hardy annual over most of the United States and Canada, the petunia is, after all, a tender perennial.

Fire Chief belongs to the dwarf, compact, hybrid type. The compact plants holds its uniform bushy shape well through the season instead of dividing its center and sprawling over the ground, which makes it good for bedding, low borders and edgings.

Gold medal awards in the vegetable class have been given to Uconn squash and Topcrop snap bean. Uconn is a true bush form of the popular Acorn or Table Queen type squash. With it there is no waste or loss of fruit, as it is used early in the season as a summer squash and surplus fruits are left for maturity and stored for winter squash. While with the Connecticut agricultural experiment station, Dr. L. C. Curtiss developed Uconn from a cross between Acorn and Prolific Straightneck.

Created by Dr. W. J. Zaumeyer, United States Department of Agriculture bureau of plant industry station, Beltsville, Md., Topcrop bush snap bean is the heaviest bearer of all the popular varieties of bush beans and is of the highest eating quality, is green, round-podded, stringless and fiberless.

A regional recommendation and a temporary bronze medal were given Congo watermelon, which may rate higher after its 2-year tests are completed. It matures in ninety days in melon-producing sections in the south and reaches up to sixty pounds in weight. Congo was entered in the All-America trials by C. F. Andrus, horticulturist at the South Carolina agricultural experiment station, Charleston.

LAST fall Joe H. Driver opened Ramal Gardens & Nurseries at Buford, Ga., on ten acres of leased land.

CATALOGS RECEIVED. WHOLESALE LISTS.

Appalachian Nurseries, Waynesboro, Pa.—Deciduous and evergreen lining-out stock and perennials; 8-page folder, 3 1/2 x 9 inches.

C. R. Burr & Co., Inc., Manchester, Conn.—Ornamental trees and shrubs, hedge plants, vines, rosebushes, evergreens, fruit trees and small fruits; illustrated; 24 pages and cover, 4x9 inches.

Arnold C. Clark Nursery, McMinnville, Tenn.—Shade and ornamental trees, deciduous flowering shrubs, evergreens, native shrubs and vines, hardwood cuttings; 8-page folder, 4x9 inches.

Cunningham Gardens, Inc., Waldron, Ind.—Hardy chrysanthemum rooted cuttings, hardy phlox liners and perennials; 8 pages, 4x9 inches.

N. A. Hallauer, Webster, N. Y.—Hardy herbaceous plants and bulbs; 6-page folder, 4x9 inches.

Lake's Shenandoah Nurseries, Shenandoah, Ia.—Fruit, ornamental and shade trees; ornamental shrubs and vines, evergreens, roses, perennials and peonies; 48 pages and cover, 6x9 inches.

Thomas B. Meehan Co., Inc., Dresher, Pa.—Ornamental trees, shrubs and evergreens; 4 pages, 5 1/2 x 12 1/2 inches.

Pfingst's Nursery, Montgomery, Ala.—Camellias, azaleas and ornamental shrubs; 16 pages and cover, 4x9 inches.

Somerset Rose Nursery, Inc., New Brunswick, N. J.—Chrysanthemum and carnation cuttings, and supplies; 24 pages, 8 1/2 x 11 inches.

Wood-Howell Nurseries, Bristol, Va.—Coniferous and broad-leaved evergreens; 6-page folder, 3 3/4 x 8 1/2 inches.

WHOLESALE CATALOGS.

American Bulb Co., Chicago and New York—Flower, vegetable and grass seeds, bulbs, chrysanthemum and carnation cuttings, and supplies; illustrated; 100 pages and cover, 8 1/2 x 11 inches.

Buntings' Nurseries, Inc., Selbyville, Del.—Roses, flowering shrubs, trees and vines, shade trees, fruit trees and small fruits, profusely illustrated in color; 40 pages, 9x12 inches.

RETAIL PRICE LIST.

Cunningham Gardens, Inc., Waldron, Ind.—Chrysanthemums, phlox and perennials; illustrated in color; 4-page folder, 9 1/2 x 12 1/2 inches.

Malmo Nurseries & Seed Stores, Seattle, Wash.—Rosebushes, 16 pages, 5 1/2 x 8 1/2 inches.

Richmond Nurseries, Richmond Beach, Wash.—Rosebushes, fruit trees, shade trees and flowering shrubs; some illustrations; 4x9 1/2 inches folded.

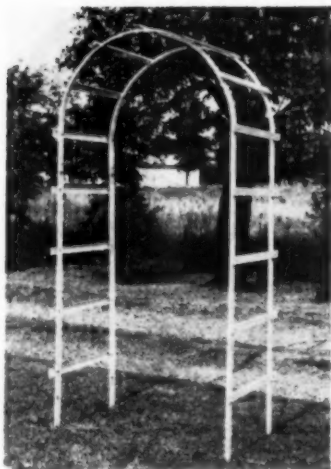
RETAIL CATALOGS.

Armstrong Nurseries, Ontario, Calif.—Roses, camellias, flowering trees, shrubs and vines, perennials and fruit trees; profusely illustrated in color; 96 pages and cover, 8 1/2 x 11 1/2 inches.

J. H. Faassen-Hekkens, Telegen, Holland—Silver anniversary catalog of deciduous and evergreen trees and shrubs, rosebushes, vines, hardy plants and fruit trees; illustrated; 72 pages and cover, 7 1/4 x 10 inches.

Fitzgerald's Nurseries, Stephenville, Tex.—Fruit trees, small fruits, nuts, ornamental trees and shrubs, roses; 36 pages, 6x9 1/2 inches.

Kelly Bros. Nurseries, Inc., Dansville,



ALL-STEEL LIFETIME PERGOLA

Picture this sturdy metal pergola covered with climbing roses or vines. It is a favorite with all who desire lasting beauty combined with low cost. You'll find it listed—item 30—in STANWADE'S new catalog, which pictures ALL-STEEL trellises, pergolas, wreath holders, driveway markers and fencing of various sizes and designs with prices. Dealers are doing a fine business with these high-quality, lifetime products.

For STANWADE'S catalog and more information, write to . . .

**STANWADE METAL
PRODUCTS**

Box 23
Attn.: S. L. Woofert
HARTFORD, OHIO

PORTABLE, ALL-BRASS CHAMPION GIVES YOU ALL-PURPOSE SPRAYING AT LOW COST

Here's ONE portable sprayer that does the work of several. Nozzle quickly adjusted to spray anything . . . up, down or sideways . . . as fine mist or 30-foot stream.

**INSECTICIDES • FUNGICIDES • OILS
DDT • WEED KILLER • WATER PAINT**

No dangerous compressed air tank. Pressure pumped as needed in pressure cylinder only. 4 1/4-gal. tank and working parts all brass. Trouble-free, no clogging.

See your dealer or write for free literature. Territories available for established dealers.

CHAMPION SPRAYER CO.

Mfrs. of Portable Sprayers and Dusters
6509 HEINTZ AVENUE
DETROIT 11, MICH.



Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

THE NEW MODEL B LINDIG SOIL SHREDDER

The World's Finest

Improved performance with

- Actioned Shredding Blades
- Increased Capacity
- More Uniform Shredding

Write for descriptive folder and prices and name of your nearest dealer.

LINDIG MFG. CO., Inc.

1875 W. Larpenteur Ave.

St. Paul 8, Minn.



NATURAL RAFFIA COLORED
DISPLAY GRASS MATS
CUT GRASS

JULIUS LOEWITH, INC.

120 East 16th Street New York 3, N. Y.
Established 1909

PLATE BOOKS

For Nurserymen


Send for our New Catalog

B. F. CONIGISKY


202 MAIN ST.

PEORIA 2, ILL.

EVERYTHING FOR THE NURSERYMAN




Quality



SERVICE



Dependability



economy

GEO. B. CARPENTER & Co.
440 NORTH WELLS STREET • CHICAGO 54

Please Mention **AMERICAN NURSERYMAN** When Writing Advertisers.

DO YOU NEED THESE MACHINES?

6-ft. TREE MOVER

- Mounted on a 6-wheel Dodge truck, purchased new in 1947.
- 8 speeds forward; 2 in reverse.
- Gar Wood Power Winch.
- 15,000 miles.
- Tree mover easily removed, leaving an all-steel box truck.
- Pictures sent on request.

SPRAYER

- Bean No. 4758MT.
- Equipped with starter and generator.
- 400-gal. tank with refiller.
- 35-gal. per min. pump.
- 800 pounds pressure.
- Continental engine.
- 2 Bean spray guns and 2 liquid tree-feeding guns.
- Used 3 seasons; perfect condition.

If interested in either Tree Mover or Sprayer or both, see me at the convention of the Illinois State Nurserymen's Association at the Hotel La Salle, or phone direct.

S. G. CLEGG

Phone: 3571

PLAINFIELD, ILL.

BENOX

Lemke brand of Oxyquinoline Benzate

for DUTCH ELM DISEASE

Information on Request

B. L. Lemke & Co. Inc.
Manufacturing Chemists
LODI, NEW JERSEY

Telephones:
New York: BRyant 9-0677 Lodi: PRescott 7-5806

HALPERN BROS.

NURSERY BURLAP

Squares and Rolls

and

MESH COTTON NET SQUARES

272 S. 2nd St. Market 3346

PHILADELPHIA 6, PA.

BURLAST

BALL SAVER
ENDS RE-BURLAPPING

HILL'S NURSERY
P. O. Box 43 VICTORIA, TEXAS

FERTO POTS

Made of Cow Manure

Plant eats pot. Write for booklet.

Dealers—Agents wanted

ALLEN CO. PITTSBURY, N. J.

AMERICAN NURSERYMAN

N. Y.—Fruit trees, small fruits, flowering trees and shrubs, evergreens, rosebushes and supplies; illustrated in color: 56 pages, 8x11 inches.

Tuttle Bros. Nurseries, Altadena, Calif.—Evergreens, vines, nut and fruit trees, ornamental and shade trees, shrubs, perennials, roses; illustrated, partly in color: 48 pages, 8½x11 inches.

Wayside Gardens Co., Mentor, O.—Perennials, annuals, bulbs, seeds, rosebushes, flowering trees and shrubs; handsomely illustrated in color: 200 pages and cover, 8½x11½ inches.

Whitten Nurseries, Bridgman, Mich.—Evergreens, fruit and nut trees, small fruits, perennials, roses, shrubs, ornamental trees and vines: 32 pages, 8x11 inches.

NEW PLANT PATENTS.

The following plant patents were issued recently, according to Rummel, Rummel & Snow, Chicago patent lawyers:

No. 881. *Euonymus fortunei* plant. Clifford D. Corliss, Magnolia, Mass., assignor to Corliss Bros., Inc., Gloucester, Mass. A new and distinct horticultural variety of *Euonymus fortunei* plant, characterized particularly by its erectness and shapeliness of shrub growth in the absence of support; its vigorous, sturdy and bushy habit of growth in forming from one central stem a neatly rounded evergreen bush; its large, thick and glossy leaves; its hardiness and resistance to disease; its ability to stand dry conditions, and the absence of any showing of winter burn.

No. 882. Carnation plant. Emil Prushek, Niles, Mich., assignor to the R. M. Kellogg Co., Three Rivers, Mich. A new and distinct variety of carnation plant, characterized as to novelty by the hardy, vigorous and compact habit of growth; its good production of side branches; its production of well spaced flowers on stiff stems of good cut flower length, that stand up under garden conditions; the absence of splitting of the calyx, and the pink-blush color of the flowers.

No. 883. Rose plant. Herbert C. Swim, Ontario, Calif., assignor by mesne assignments to Eldon Pinkney Dering, doing business as Peterson & Dering, Scappoose, Ore. A new and distinct variety of hybrid tea rose plant, characterized as to novelty by its vigorous habit of growth to from five to seven feet; production of long flower stems relatively free of thorns and glossy foliage of large size; flower buds of relatively great length, appropriate for cut flower utility, and a color in bud and flower distinct from any known variety.

No. 884. *Pyracantha* plant. Kosaku Sawada, Crichton, Ala., assignor to Overlook Nurseries, Crichton. A new and distinct variety of *Pyracantha koidzumi* plant, characterized by its dwarf globular growth, its distinctive foliage and its absence of thorns.

No. 885. Rose plant. Herbert C. Swim, Ontario, Calif., to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant, characterized as to novelty by vigorous growth and production of large, leathery and glossy foliage; high degree of resistance to mildew and black spot; the form of the buds and flowers and their coloring in the respective stages of development; the long, strong flower stems and their relative freedom from prickles, and the penetrating tea rose fragrance of the flowers.

No. 886. Rose plant. Herbert C. Swim,

Ontario, Calif., assignor to mesne assignments to Inter-State Nurseries, Inc., Hamburg, Ia. A new and distinct variety of rose plant, characterized as to novelty by its upright, moderately branched growing habit with a normal amount of large, leathery, glossy leaves and more than average resistance to mildew, and by its production of buds of average to large size, opening to large flowers five to six inches in diameter and of unusual colors.

No. 887. Japanese holly plant. Warren E. Stokes, Butler, Pa. A new and distinct variety of Japanese holly plant, characterized by its exceedingly dwarf, dense, compact habit of growth, the small size and closeness together of its leaves, its hardness and its adaptability for either hedge or specimen use.

No. 888. Peach tree, Charles O. Grisinger, New Cumberland, Pa., assignor to Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. A new and distinct variety of peach tree, characterized as to novelty by the white flesh of its fruit, marked with a thin yellow flesh segment extending along the suture line from stem to tip and through the skin, appearing externally as a narrow yellow stripe along said line; by the excellent flavor and quality of its fruit, slightly less acid than possessed by its parent variety; by the firmness of its flesh, and by the absence of the yellowish tint from the foliage.

No. 889. Rose plant. Svend Poulsen, Copenhagen, Denmark, assignor to the Conard-Pyle Co., West Grove, Pa. A new and distinct variety of rose plant of the hybrid polyantha class, characterized as to novelty by its adaptability for use as cut flowers and garden decoration; its exceptionally vigorous growing habit over a long blooming period; the extraordinary freedom of flowering; the purity of the color of its flowers, and the excellent form and large size of said flowers.

No. 890. Strawberry plant. William E. Silva, Sebastopol, Calif. A new and distinct variety of strawberry plant, characterized by its sturdy growth, productiveness of fruit and absence of runners.

No. 891. Camellia plant. John S. Armstrong, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of camellia plant, characterized as to novelty by its vigorous growing habit and strong tendency to precociousness; by the size and abundance of its foliage, and by the size and color of the flowers of heavy substance, said plant also having an unusual blooming season in comparison with other known white camellias of this form.

No. 892. Climbing rose plant. Carl W. Chaffin, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant, characterized as to novelty by its vigorous climbing habit, in combination with the season of bloom and the manner in which its blooms are produced.

No. 893. Climbing multiflora polyantha rose plant. Ralph S. Moore, Visalia, Calif. A new and distinct variety of hybrid, multiflora polyantha rose plant, characterized as to novelty by its prolific habit of blooming in terminal and lateral clusters in spring and early summer followed by blooms in clusters intermittently and less heavily during the remainder of the growing season; by its climbing habit; by the form and pink shade of its individual flowers progressively varying to lighter and softer shades of pink at the peak of bloom and throughout the remainder of the growing season; by the almost com-

Saves hours of digging time . . . costly labor

NOW! Plant heavier, wider trees and shrubbery with the **EXTRA-WIDE, 18 to 24-in. diameter ROPER Digger.**



Super High-speed Model, \$200 — includes attachments for tractor or jeep and any size auger (8 to 18 ins. in diameter).
Regular High-speed Model, \$195.00 — includes all attachments and any size auger (8 to 24 ins.).

This rugged, durable Roper Digger works perfectly in shale, stony clay, sandstone, any tough soil. Easily installed by one man in 5 minutes; fits any jeep or tractor. Cuts planting and transplanting time way down.

NO SWING OR SWAY . . . Stays rigid while digging . . . digs straight or at any angle, adjustable for hillside digging.

NO WOBBLING or breaking . . . Safety shear pin is at universal and is easily replaced in field. Three models to choose from that dig up to 42-in. holes; from 8 to 24 ins. in diameter.

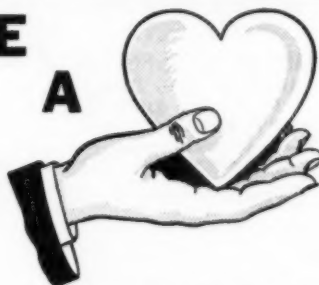
Write for free information and name of nearest dealer. **FULL YEAR GUARANTEE** on all parts and workmanship . . .

DISTRIBUTOR AND DEALER INQUIRIES INVITED. WRITE TODAY FOR INFORMATION.

ROPER MFG. CO.—DEPT. N
ZANESVILLE, OHIO

HAVE

A



**FOR PROFIT'S SAKE,
IT WILL PAY YOU TO PRESENT
YOUR CUSTOMERS
WITH A COPY OF . . .**

"SURGERY with a SPADE"

His reading it will enable your plants to thrive better for him.

It is an amusing story, humorously illustrated (one hour's reading) in which plant abuse and neglect are treated in a jesting manner.

"He who reads 'Surgery with a Spade' is bound to have his ears burn the moment he errs about plant care"—Book Review, American Nurseryman, October 15.

Send for it—paper cover, 50c. Bound cover, \$1.00.

40 per cent Discount to the trade on 5 or more copies.

JOHN J. MORRISON & SONS, PUBLISHERS, LYNCHBURG, VA.

THE SUPERIOR SOIL SHREDDER



- DEPENDABLE
- RUGGED
- ECONOMICAL

Write:

THE SNYDER MANUFACTURING CO.
Box 15 MEADVILLE, PA.

SPECIAL PINNING NAILS

Nails built to special specification for pinning.

These are 7d, smooth, box-pin-pointed with a special, heavy, thick head. Men can pin day after day without sore hands. Something we have never been able to get before, and we had to purchase in carload.

Priced F.O.B., Fairview, Pa.
Usual 5 per cent cash discount.

	Per cwt.
1 to 5 cwt.	\$12.50
5 to 10 cwt.	12.00
10 cwt. or more	11.50

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, PA.

NURSERY LABELS WATERPROOF

"Rite in the Rain"
brand

(We are sole distributors.)

Made from highest quality
tag board.

Use any ordinary pencil.
Rain or shine, writing stays on.
In sheets of 20.

Can be used in typewriter.

Two lengths

8 x 5/8 ins., 1000 per pkg., **\$2.50**

Per 5000 lots, **\$2.25** per 1000.

6 x 3/4 ins., 1000 per pkg., **\$1.50**

Per 5000 lots, **\$1.40** per 1000.

Prices for larger quantities
quoted on request.

Prices F.O.B., Portland, Ore.
or Tacoma, Wash.

WOOD

Tree, Pot and Garden Labels
BENJ. CHASE CO.

and

WOSCO

(Made in Portland)

Plain, painted or printed.

Distributors for

GOODRICH

Rubber Budding Strips

and

CLOVERSET POTS

Write for prices.

PORTLAND WHOLESALE NURSERY CO.

306 S.E. 12th Ave.

P. O. Box 2062

PORTLAND 14, ORE.

IT COSTS NO MORE

(and in most instances less)

FOR OUR PACKING OF

**Nursery Burlap
Squares and Rolls**

Write for prices and samples.

L. ATKIN'S SONS

P. O. Box 167 Rochester, N. Y.

LABELS FOR NURSERYMEN

**THE
BENJAMIN CHASE
COMPANY**
DERRY, N. H.

QUALITY PAPER LABELS

Tough, water-resistant stock, 1/4-in. x 7 in.,
plain or printed. Single or in sheets of 10.
Shipping tags, full-color broadsides, catalogs,
price lists, order blanks, order books, stock
cards, gummed labels, blotters, salesbooks, dis-
tinctive letterheads, envelopes, statements, cir-
culars.

Write for free samples and prices.

THE TINGLE PRINTING CO.
SINCE 1907 PITTSVILLE, MD.

plete absence of prickles on its stems and canes, difficult to find even with systematic search; by the form of the individual buds particularly adapted to use for corsages; by the elusive fragrance of the flowers, very strong at times for polyanthas and at other times only moderate, and by the relatively small but abundant foliage, glossy and somewhat leathery, with more than average resistance to mildew.

No. 894. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant characterized as to novelty by its free branching and floriferousness; by its abundant medium to large, heavy, leathery and glossy foliage; by its semidouble flower with an average of seventeen to twenty-one petals of unique and brilliant color, and by its habit of flowering in clusters but on relatively long individual stems, adapting it to cut flower purposes and garden decoration.

No. 895. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant, characterized as to novelty by its habit of moderate growth and production of heavy, short to medium-length stems with a tendency to continuity in production of flowers; by its large-size foliage of leathery, glossy texture and appearance and typically bright green shade; by the color of its flowers, new in hybrid teas and unique in neatness and balance throughout their life cycle, and by the tendency of the flowers to fade uniformly, with a minimum of objectionable blue coloring under heat and sunlight.

No. 896. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant, characterized as to novelty by its tall, upright and free-branching habit of growth, producing long stems with usually but a single flower to a stem; by the red color of the flowers with petals of heavy substance; by the penetrating tea fragrance of its blooms; by the oval shape of its leaflets, and by the small number of thorns.

No. 897. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif. A new and distinct variety of rose plant, characterized as to novelty by the exceptionally large size of the flowers for red roses; by the entirely new shade of red color in the bud and newly opened bloom and more particularly distinctive in the class of double roses; by the exceptional length of the flower bud as the first petal opens and the unusual length of the peduncle, and by the exceptionally vigorous plant on which the flowers are produced singly on stems of greater than average length.

No. 898. Aechmea plant. Mulford B. Foster, Orlando, Fla. A new and distinct hybrid aechmea plant, characterized as to novelty by the distinctive glossy sheen and unusual red coloring of the leaves, with this color equally brilliant on both sides of the leaves; by its strong resistance to scale or other insect infestations, and by its ability to thrive with a minimum of watering, as it retains water in its leaf cups from only occasional waterings.

PROUD parents of a daughter born the day before Christmas are Mr. and Mrs. James S. Campbell, Franklin, Va. The baby was named Carlyne Elizabeth. Mr. Campbell is owner of Campbell's Native Nursery.

HAVE Your Own Soil Test Laboratory



No
Knowledge
of
Chemistry
Needed

SUDBURY SOIL TEST KIT

Tests for
Nitrogen,
Phosphorus,
Potash,
Acidity (pH)

No Waiting
for Reports
Save Money
on Fertilizer

ORDER
FROM
THIS AD

Grow Bigger Crops!

Your surest guide to better crops, higher market prices. Sudbury Soil Test Kits show right kinds and amounts of fertilizers, also acidity. You can even test the soil where crops are now growing in benches or fields. Reliable—Easy to use.

Same kit furnished government depts., florists, nurseries, etc. Streamline welded steel chest—makes hundreds of tests. Full instructions. New low price, \$24.95 postpaid or C.O.D. plus postage. Money-back guarantee.

SUDBURY LABORATORY
Box 135, South Sudbury, Mass.

Dealers Write for Special Offer

NURSERY TAGS

Suitable for Labeling

**Trees - Shrubs - Plants -
etc.**

Convenient - Economical

PREMIER SOUTHERN TICKET CO., Inc.

1623-31 Dana Ave.

CINCINNATI 7, OHIO

RAFFIA

MADAGASCAR in A. A.

West coast and X. X. Superior

Also

GOODRICH

BUDDING STRIPS

Write for prices

THOMAS B. MEEHAN CO.
Dresher, Pa.

BURLAP SQUARES

Cut from used burlap.

15x15 ins. to 40 x 40 ins.

Write for our low prices.

GENERAL PACKAGE CORP.

220-224 BADGER AVE.

NEWARK 8, N. J.

A. M. & SON LEONARD

PIQUA, OHIO

Knives - Shears - Pruning Tools
Nursery Spades-Grafting Supplies
WRITE FOR CATALOG